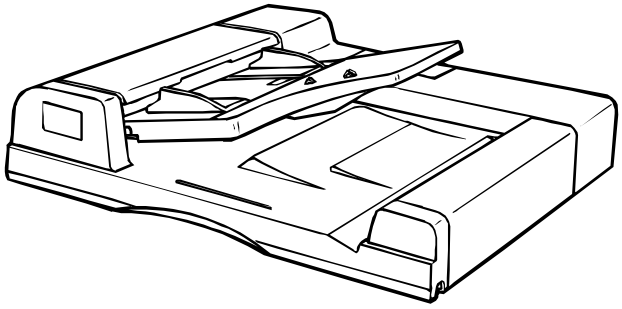
SHARP SERVICE MANUAL

CODE: 00ZSFA57SM//E



Reversing Automatic Document Feeder (RADF: SF-A57)

Automatic Document Feeder (ADF: SF-A18)

MODEL SF-A57 SF-A18

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■ PARTS GUIDE

Parts marked with "⚠" is important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

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The contents are subject to change without notice.

[1] PRODUCT OVERVIEW

The SF-A57/A18 is a reversing automatic document feeder (RADF)/ automatic document feeder (ADF) for the copier SF-2020/2120. The SF-A57 is capable of automatically copying both sides of document by inverting the document sheets up-side down, while feeding them.

Document sheets of different lengths and the same width may be set in the document tray. An internal sensor in the ADF senses the document size when the document is fed. The copier automatically selects the proper copy paper corresponding to the document size along with the appropriate magnification ratio.

If the appropriate copy paper, respective to the document size and the magnification ratio, is not available, the copier stops copying and indicates the required paper size on the display.

[2] SPECIFICATIONS

- Document setting direction: Face-up
- Document setting position: Center alignment
- Document transfer system: Belt drive
- Document feed sequence: Bottom take-up feeding (Face-up discharge)
- Document size: A3 ~ A5 (Portrait), 11" × 17" ~ 8-1/2" × 5-1/2"
- Document changing time: 0.68sec or less (Excluding the first copy)
- Document weight: Thin paper mode; 35 ~ 50g/m^2 Standard mode; 51 ~ 128g/m^2
- Max. No. of documents to be set:

  50 sheets (A4, letter)
  35 ~ 80g/m^2 (9 ~ 21lb), 5mm thick or less
  80 ~ 128g/m^2 (21 ~ 33lb), 5mm thick or less
- Document stopper: Mechanical stopper
- Dimensions: SF-A56;
  592 (W) × 521 (D) × 110 (H)mm
  23-5/16" (W) × 20-33/64" (D) × 4-11/32" (H)
  SF-A17;
  571 (W) × 521 (D) × 110 (H)mm
  22-31/64" (W) × 20-33/64" (D) × 4-11/32" (H)
- Weight: SF-A56; 11kg (24.3lbs)
  SF-A17; 10kg (22.1lbs)

[Features]

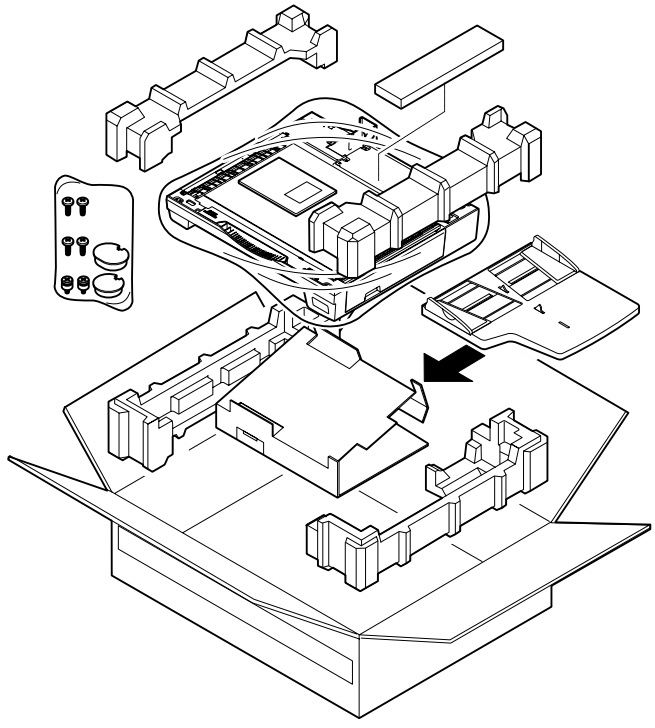
- Document detection on tray (Irregular-sized documents are copied without size recognition.)
- Recognized paper sizes: Japan;
  A3, B4, A4, A4R, B5, B5R,
  Inch series;
  11" × 17", 8-1/2" × 14", 8-1/2" × 11", 8-1/2" × 11"R, 8-1/2" × 5-1/2"
  Non-Japanese A/B series:
  A3, B4, A4, A4R, A5
- Mixed document: Possible
- Document inversion: Automatic

[Display]

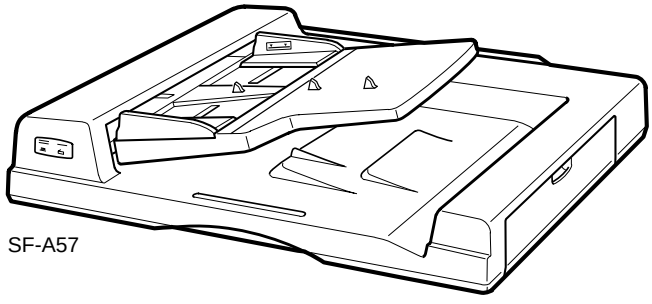
- Document feed indicator: Lights when documents are set on feed tray and indicates that RADF is ready.
- Remove original indicator: When originals are placed manually, the LED lights at the same time as exposure of the last document sheet is finished. The LED goes out when the document feed cover is opened.

[3] UNPACKING AND INSTALLATION

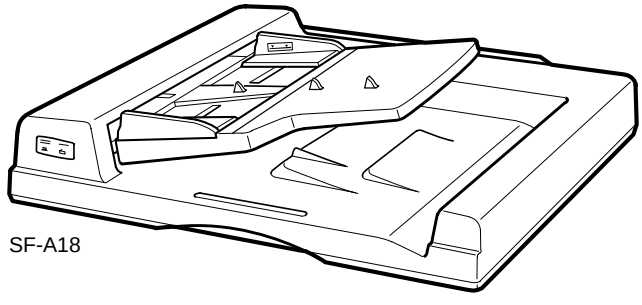
1. UNPACKING



2. INSTALLATION

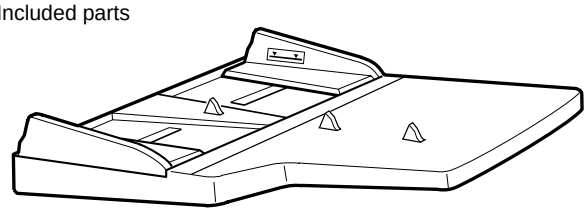


SF-A57

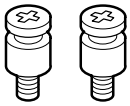


SF-A18

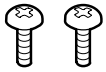
Included parts



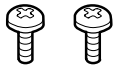
ADF tray



ADF mounting screws
(2 pcs.)



ADF securing screws
(2 pcs.)



Tray securing screws
(2 pcs.)

Right cover
(1 pc.)

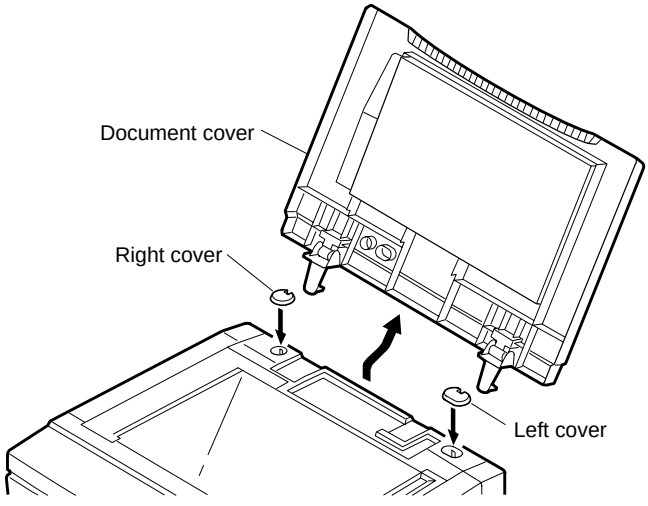
Left cover
(1 pc.)

Unplug the copier and follow the procedure below.

1. Remove the document cover.

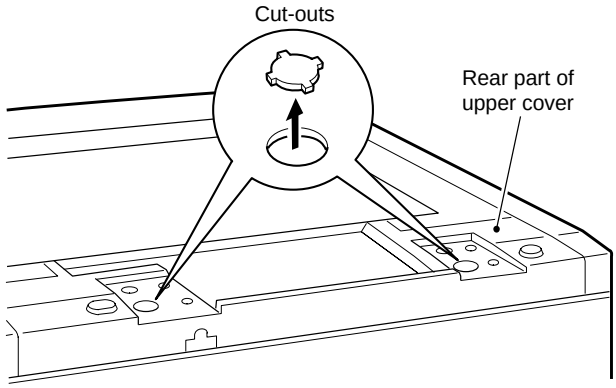
Open the document cover and lift it at a slight backward angle to remove it.

Insert the left and right covers (included parts) into the holes from which the document cover has been removed.

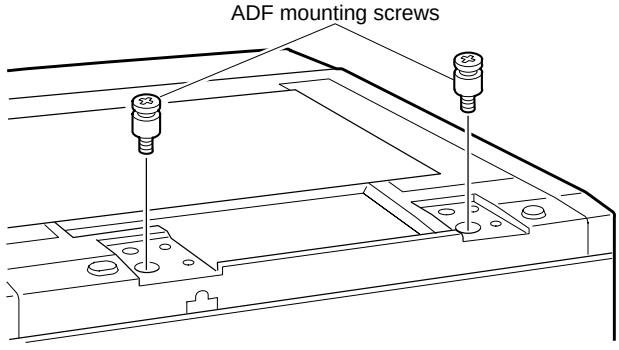


2. Mount the ADF onto the copier.

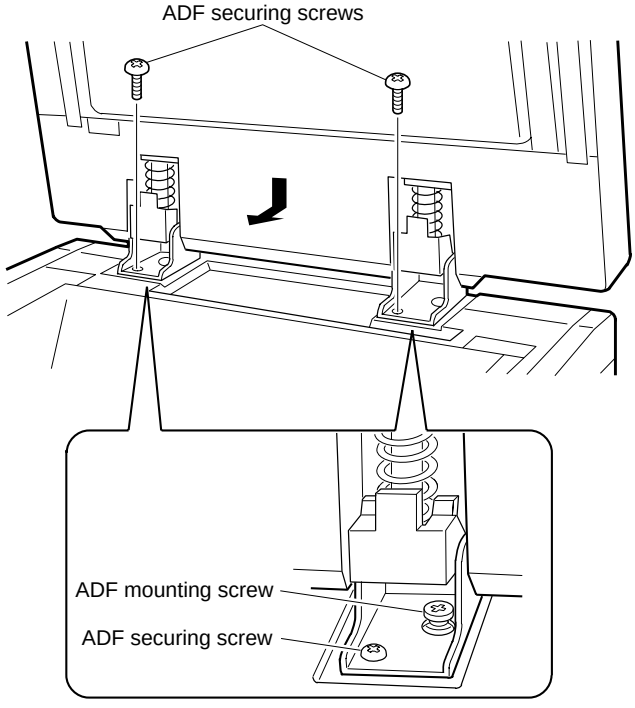
Remove the two cut-outs from the rear part of the upper cover of the copier.



Install the two ADF mounting screws.

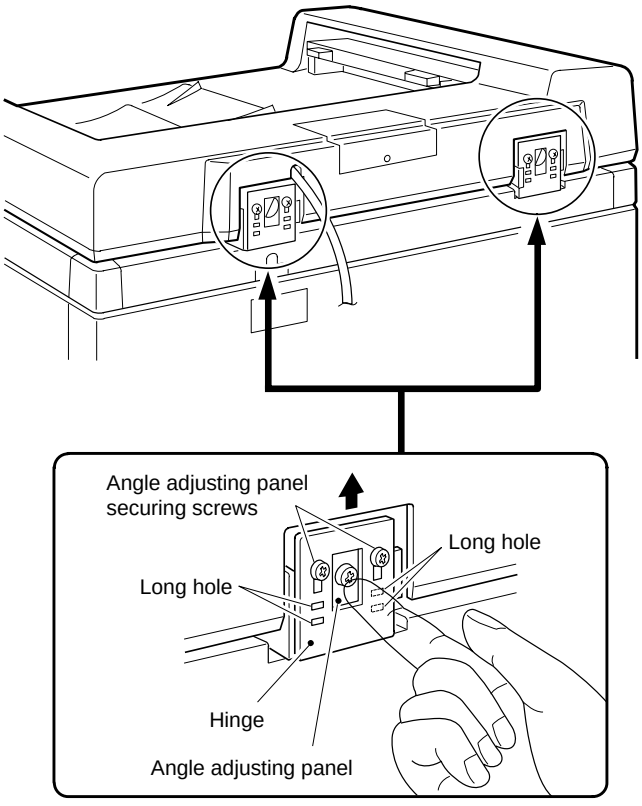


Fit the ADF mounting screws into the holes in the hinges of the ADF and secure the ADF with the two ADF securing screws.



3. Adjust the angle of ADF.

Loosen the two securing screws for the angle adjusting panel attached to the hinge angle and then fasten the loosened screws while raising the angle adjusting panel completely.

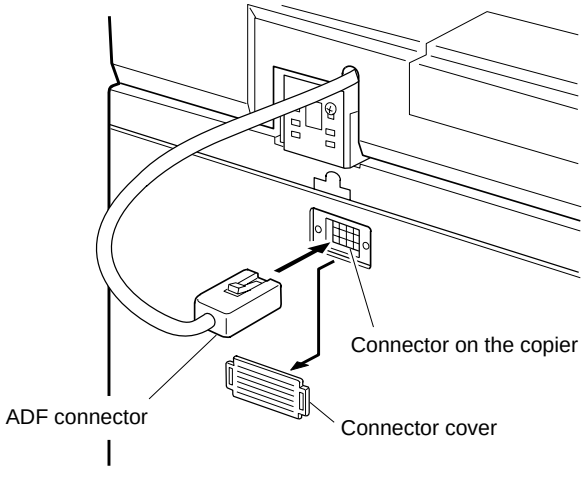


NOTE:
Be sure to check that the protrusion of the angle adjusting panel is securely inserted into the long hole of the hinge.

4. Connect the ADF connector.

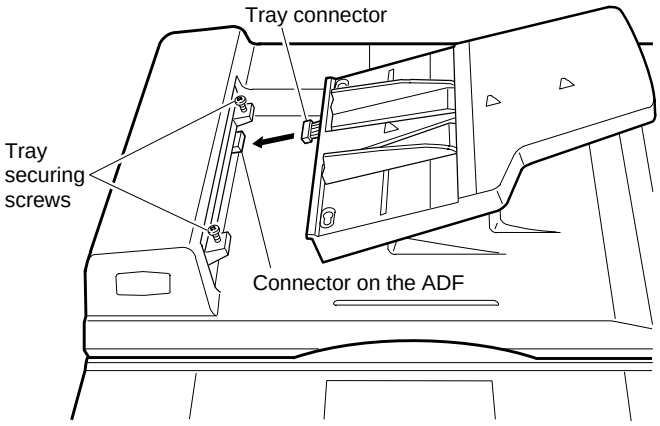
Remove the connector cover from the copier's rear cover.

Next, connect the ADF connector to the connector on the copier.



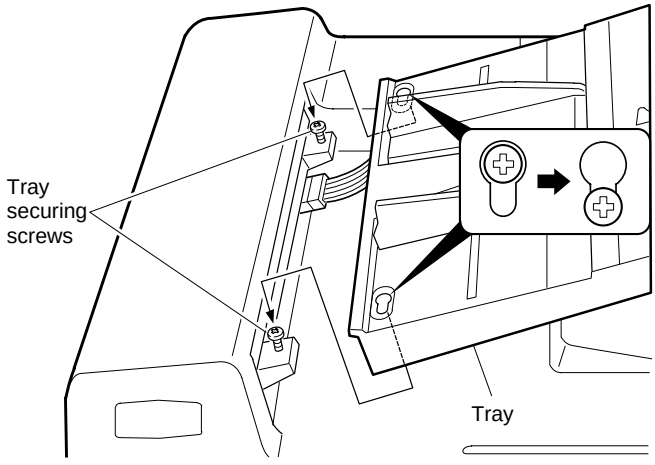
5. Connect the ADF tray connector.

Thread the M4 x 8 tray securing screws (included parts) partway into their holes, then connect the tray connector.



6. Attach the ADF tray.

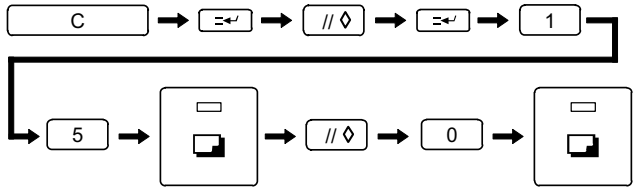
Loosen the two ADF tray securing screws, install the tray as shown in the figure, and fasten the tray securing screws.



Plug the copier into a grounded outlet and turn the power switch on. Then, follow the procedure below.

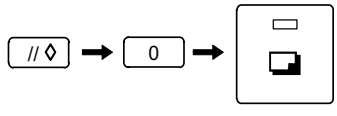
7. Set the mode.

- Operate the copier keys to set the mode.



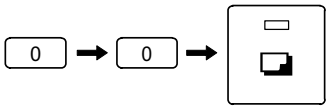
The above key operation will display the currently set mode.

- When only the SF-A56 is to be set, immediately after the above key operation, operate the keys as follows:



- If the mode is to be set in combination with other options, use the table shown below to add up the total of the setting values for all the peripheral devices to be set, and set that total value.

  For example, if the SF-A56 and sorter are to be set, the total setting value is 1 + 10 = 11. Operate the keys as follows:



SF-A17	1
SF-A56	1

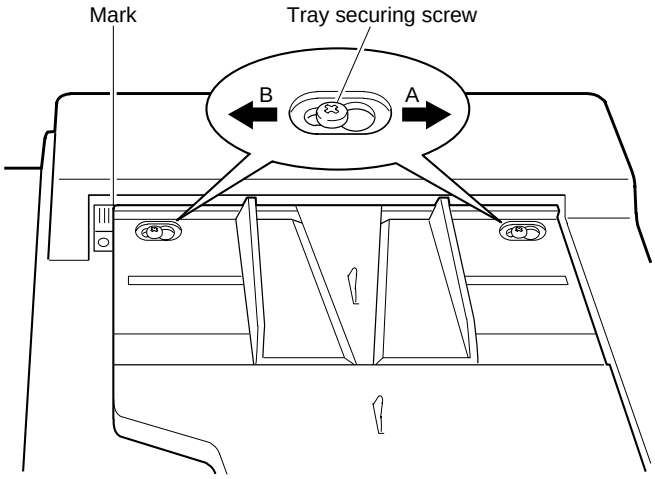
Stand/paper drawer	4

Sorter	10
Staple sorter	10

8. Adjust the center of the copy.

Set an original in the ADF tray and make a copy.

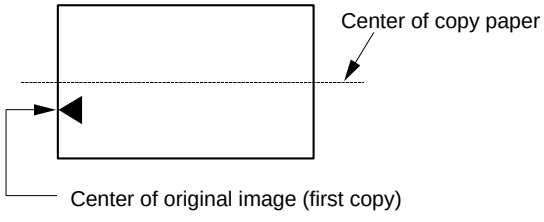
When the copy is off center as shown in Fig. 1 or Fig. 2, loosen the two tray securing screws and adjust the tray by moving it in direction A or B as shown in the figure.



★ **When off center as shown in fig. 1**

Move the tray in direction A and secure it with the two mounting screws. Make a copy to check whether it is centered properly.

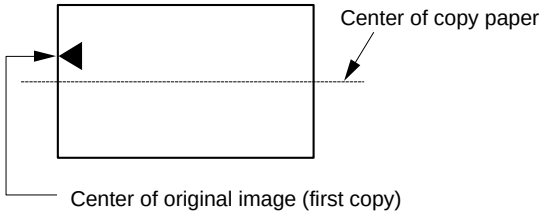
Fig. 1



★ **When off center as shown in fig. 2**

Move the tray in direction B and secure it with the two mounting screws. Make a copy to check whether it is centered properly.

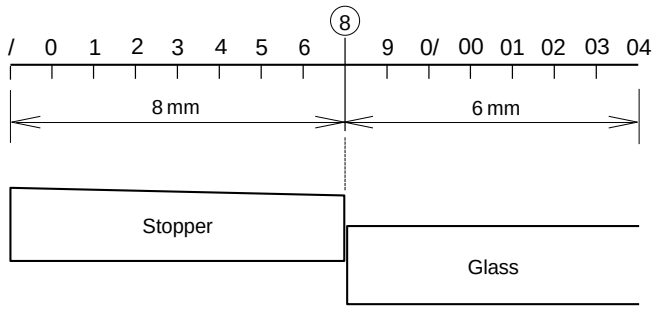
Fig. 2



9. Adjust the position of the leading edge of originals

- The position of the leading edge of originals fed from the ADF can be determined using test command 53 .
- Although the leading edge has been factory set to stop at location (8), it may need to be adjusted depending on the type of originals.

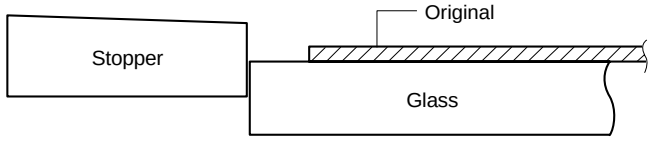
The leading edge position can be adjusted within a range of 8 mm (8 steps) on the stopper side and 7 mm (7 steps) on the glass side in 1 mm increments. Adjustment can be done separately for the one-sided, two-sided, and thin paper modes.



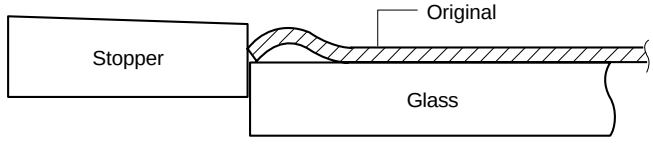
View from the operator side

Setup example

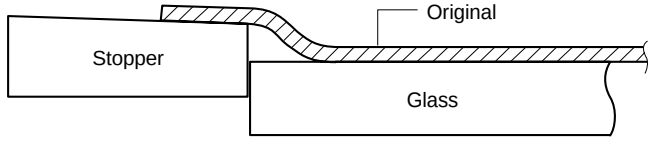
(1) If the leading edge of the original was not fed all the way to the stopper, enter value which will move the original toward the stopper side.
7, 6, 5, 4...



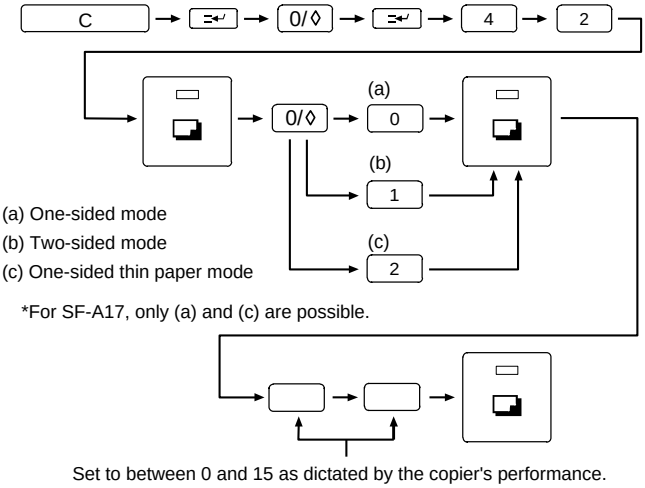
(2) If the copy image at the leading edge was distorted, enter value which will move the original toward the glass side.
9, 10, 11...



(3) If the original overrode the stopper, enter value which will move the original toward the glass side.
9, 10, 11, 12 ...



- After selecting test command 53, enter a selected set value between 0 and 15 using the copier keys.

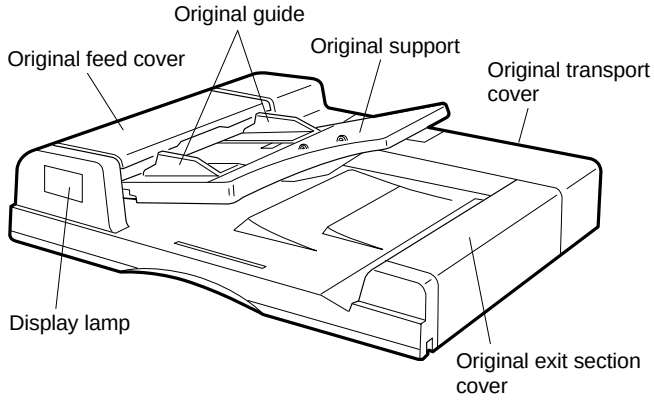


*For SF-A17, only (a) and (c) are possible.

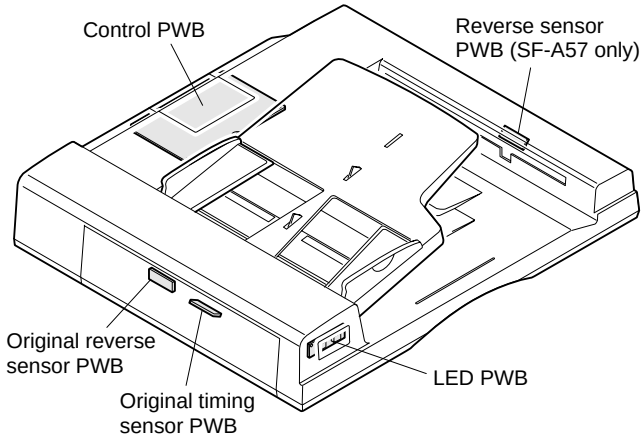
Set to between 0 and 15 as dictated by the copier's performance.
The factory setting is "8".

[4] STRUCTURE

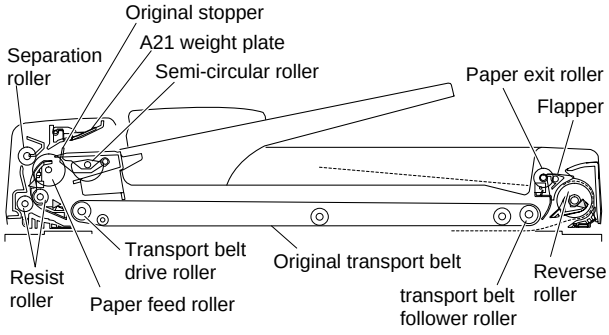
A. External fitting



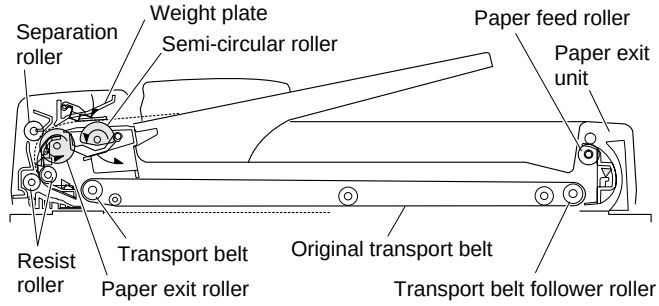
C. PWB distribution



B. Mechanism



SF-A57

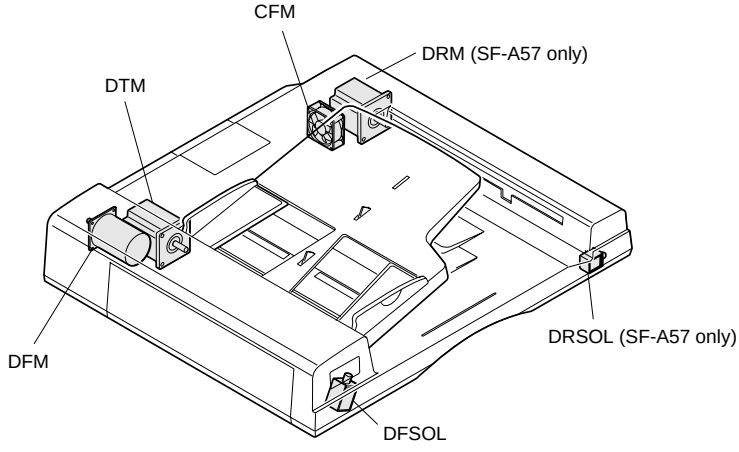


SF-A18

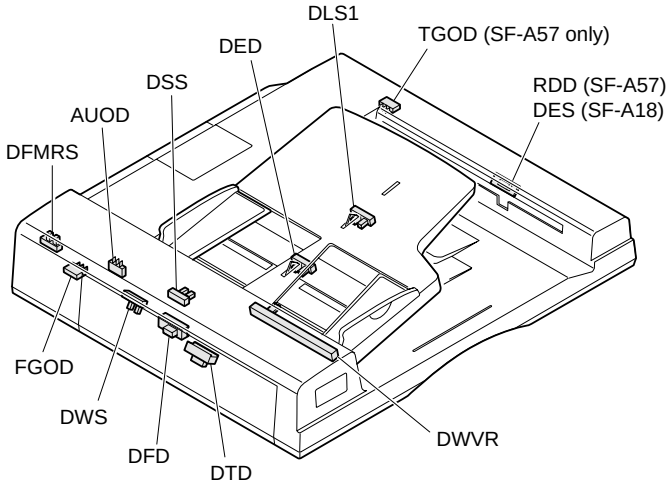
D. Motors, solenoids, and clutches

■ Motors

Code	Name	Type	Functions and operations	Contact/output
DFM	Paper feed motor	DC motor	Drives the pickup roller, the separation roller, and the resist roller.	
DTM	Transport motor	Stepping motor	Drives the transport belt roller.	
DRM	Reverse motor	Stepping motor	Drives the reverse roller and the paper exit roller.	
CFM	Cooling fan motor	DC fan motor	Cools the power section.	
DFSOL	Paper feed solenoid	DC solenoid	Presses the paper feed section weight plate onto the original and opens/closes the shutter.	When this is ON, the weight plate and the shutter fall.
DRSOL	Reverse solenoid	DC solenoid	Drives the reverse flapper to select the paper exit path or the reverse feed path.	When this is ON, the reverse path is selected.



E. Sensors, switches, detectors

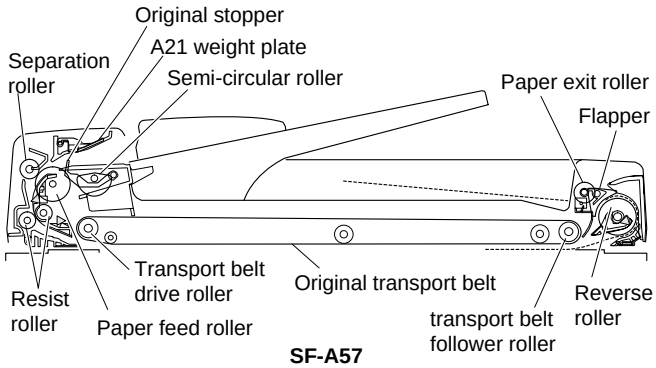


Code	Name	Type	Functions and operations	Contact/output
DFD	Original feed sensor	Reflection sensor	Turns HIGH when the original lead edge is fed just in front of the resist roller.	HIGH when the original is sensed.
DTD	Original timing sensor	Reflection sensor	Turns HIGH when the original lead edge is transported from the paper feed section to the vicinity of the transport belt.	HIGH when the original is sensed.
RDD	Reverse sensor	Reflection sensor	Turns HIGH when the original lead edge is transported to the reverse/paper exit path.	HIGH when the original is sensed.
DES	Paper exit sensor	Photo interrupter	Turns HIGH when the original lead edge is transported to the paper exit path	HIGH when the original is sensed.
DED	Original end sensor	Photo interrupter	Final paper detection on the tray	LOW when the original is sensed.
DWVR	Original width volume	Slide volume	Original width detection on the tray by the voltage of volume	
DLS1	Original length sensor 1	Photo interrupter	Original length detection on the tray	HIGH when the original is sensed.
DLS2	Original length sensor 2	Photo interrupter	Original length detection on the tray (Inch series only)	HIGH when the original is sensed.
DSS	Original set sensor	Photo interrupter	Original detection on the tray	HIGH when the original is sensed.
DFMRS	Paper feed motor rotation sensor	Photo interrupter	Paper feed motor rotation detection	Pulse output
DWS	Original width sensor	Photo interrupter	Original width detection	LOW when the original is sensed.
AUOD	ADF open/close sensor	Microswitch	ADF unit open/close detection	LOW when closed.
FGOD	Paper feed guide switch	Microswitch	Paper feed cover open/close detection	LOW when closed.
TGOD	Reverse guide switch	Microswitch	Reverse cover open/close detection	LOW when closed.

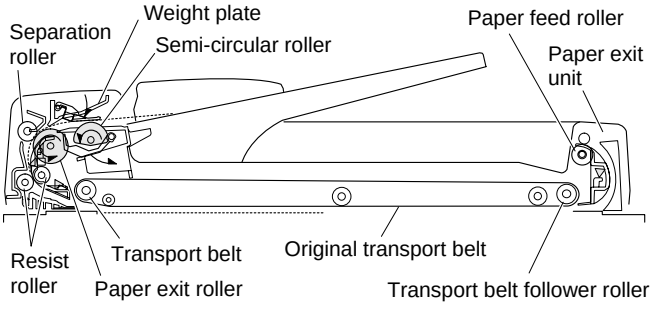
[5] OPERATIONAL DESCRIPTIONS (MECHANISM SECTION)

A. Operation flowchart

The figures below show the transport path of an original from the original setting, through paper feed, copying, to paper exit. For details of operations, refer to the operation process.



SF-A57



SF-A18

1) SF-A18 ADF mode (single copy mode) copying

START

↓

Step 01: The transport section is closed. (AUOD OFF)

↓

Step 02: An original is set on the original tray. (DSD output HIGH)

↓

Step 03: Original feed display ON

↓

Step 04: Print SW ON

↓

(Preliminary paper feed): For the first original, dummy paper exit is performed.

↓

Step 05: Paper feed motor (DFM) forward rotation
(Paper feed roller, semi-circular roller rotation)
Since the stopper is up, paper feed is not performed.

↓

Step 06: Transport motor (DTM) forward rotation
(Transport belt, paper exit roller rotation)

∗ A: If there had been an original on the glass, it would be discharged.

↓

Step 07: Paper feed motor (DFM) OFF

↓

Step 08: Paper feed solenoid (DFSOL) ON
(The weight plate and the stopper move down to press the original onto the semi-circular roller.)

↓

Step 09: Paper feed motor (DFM) forward rotation
The original feed is started.

↓

∗ A Step 10: The paper exit sensor (DES) senses the lead edge of the discharged original.
(DES output HIGH)

↓

∗ A Step 11: Transport motor (DTM) rpm down

↓

Step 12: The original feed sensor (DFD) senses the lead edge of the original. (DFD output HIGH)

↓

Step 13: The original is stopped by the resist roller and the paper feed motor (DFM) is turned OFF.

↓

Step 14: Paper feed motor (DFM) reverse rotation
(Resist roller rotation)
The original lead edge is taken up by the resist roller.

↓

Step 15: The original width sensor (DWS) senses the original width. (Output LOW)

↓

Step 16: The original timing sensor (DTD) senses the original lead edge. (DTD output HIGH)

↓

Step 17: Paper feed motor (DFM) OFF
(The original is stopped with its lead edge taken up by the resist roller.)

↓

∗ A Step 18: Paper exit sensor (DES) senses the paper exit rear edge. (DES output LOW)

↓

∗ A Step 19: Original discharge

↓

Step 20: Transport motor (DTM) OFF
(The transport belt and the paper exit roller are stopped.)

↓

(Paper feed)

↓

Step 21: Transport motor (DTM) forward rotation
(The transport belt and the paper exit roller rotate.)

↓

Step 22: Paper feed motor (DFM) reverse rotation
(Resist roller rotation)
The original is sent to the transport section.

↓

Step 23: Original width sensor (DWS) output HIGH

↓

Step 24: Original timing sensor (DTD) senses the original rear edge. (DFD output LOW)

↓

Step 25: Paper feed motor (DFM) OFF
(Resist roller stops.)

Step 26: Transport motor (DTM) OFF
(Transport belt, paper exit roller stop)
Original stop

∗ B Step 27: Paper feed solenoid (DFSOL) OFF
(The weight plate and the stopper move up.)
∗ B: If there is no original on the tray, move up the stopper and the weight plate.

Step 28: Copier mirror base scanning is started.

∗ E DSS

LOW (No original on the tray) → After completion of mirror base scanning, go to step 48.

HIGH (There are some originals on the tray.)

(Preliminary paper feed)

Step 29: Paper feed motor (DFM) forward rotation
(Paper feed roller, semi-circular roller rotation)
The original feed is started.

Step 30: The original feed sensor (DFD) senses the original lead edge. (DFD output HIGH)

Step 31: The original is stopped by the resist roller.
Paper feed motor (DFD) OFF

Step 32: Paper feed motor (DFM) reverse rotation
(Resist roller rotation)
The original lead edge is taken up by the resist roller.

Step 33: The original width sensor (DWS) senses the original.
(Output HIGH)

Step 34: The original timing sensor (DTD) senses the original lead edge. (DTD output HIGH)

Step 35: Paper feed motor (DFM) OFF
(The original is stopped with its lead edge taken up by the resist roller.)

Step 36: Copier mirror base scanning is stopped.

(Paper exit)

Step 37: Transport motor (DTM) forward rotation
(Transport belt, paper exit roller rotation)
The original discharge is started.

∗ D Step 38: The previous original discharge

Step 39: Paper feed motor (DFM) reverse rotation
(Resist roller rotation)
The original is sent to the transport section.

Step 40: Paper exit sensor (DES) senses the original rear edge. (DES output HIGH)

Step 41: Original width sensor (DWS) output HIGH

Step 42: Original timing sensor (DTD) senses the original rear edge. (DTD output LOW)

Step 43: Paper feed motor (DFM) OFF
(Resist roller stop)

Step 44: Paper exit sensor (DES) senses the discharged original rear edge. (DES output LOW)

∗ D Step 45: Transport motor (DTM) OFF
(Transport belt, paper exit roller stop)
Original stop

Step 46: Paper feed solenoid (DFSOL) OFF
(The weight plate and the stopper move up.)
∗ B: When there is no original on the tray, move up the stopper and the weight plate.)

Step 47: Copier mirror base scanning is started.

∗ E DSS

HIGH (There are some originals on the tray.)
→ Go to step 29 (Preliminary paper feed).

LOW (No original on the tray)

Step 48: Transport motor (DTM) forward rotation
(Transport belt, paper exit roller rotation)

∗ D Step 49: Previous original discharge

Step 50: Paper exit sensor (DES) senses the discharged original lead edge. (DES output HIGH)

Step 51: Transport motor (DTM) rpm down

Step 52: Paper exit sensor (DES) senses the discharged original rear edge. (DES output LOW)

Step 53: Original discharge

Step 54: Transport motor (DTM) OFF
(Transport belt, paper exit roller stop)

END

Note: ∗ A: This operation is performed when there is an original on the original table in advance. If there is no original on the original table, this operation is not performed.

∗ B: This operation is performed when there is no original on the original table.

∗ C: When the is an original on the original tray, the original set sensor (DSD) output becomes LOW.

∗ D: When the previous original remains in the paper exit section, it is discharged.

2) SF-A57 RADF mode (duplex copy mode) copying

START

Step 01: The transport section is closed. (AUOD ON)

Step 02: An original is set on the original tray. (DSS output HIGH)

Step 03: Original feed display ON

Step 04: Print SW ON

(Preliminary paper feed): ∗ A: For the first original, dummy paper exit is performed.

∗ A Step 05: Paper feed motor (DFM) forward rotation
(Paper feed roller, semi-circular roller rotation)
Since the stopper is up, paper feed is not performed.

Step 06: Reverse motor (DRM) forward rotation
(Reverse roller, paper exit roller rotation)

Step 07: Transport motor (DTM) rotation
(Transport belt rotation)
∗ B: If there has been an original on the tray, is discharged.

∗ A Step 08: Paper feed motor (DFM) OFF
Paper feed solenoid (DFSOL) ON
(The weight plate and the stopper move down to press the original onto the semi-circular roller.)

Step 09: Paper feed motor (DFM) forward rotation
(Paper feed roller, semi-circular roller rotation)
The original feed is started.

∗ B Step 10: Reverse sensor (RDD) senses the lead edge of the discharged original.
(RDD output HIGH)

Step 11: Original feed sensor (DFD) senses the lead edge of the discharged original. (DFD output HIGH)

Step 12: Paper feed motor (DFM) OFF
The original is stopped by the resist roller.

Step 13: Paper feed motor (DFM) reverse rotation
(Resist roller rotation)
The lead edge of the original is taken up by the resist roller.)

Step 14: Original width sensor (DWS) senses the original width. (Output LOW)

Step 15: Original timing sensor (DTD) senses the lead edge of the original. (DTD output HIGH)

Step 16: Paper feed motor (DFM) OFF
(The original is stopped with its lead edge taken up by the resist roller.)

∗ B Step 17: Reverse sensor (RDD) senses the rear edge of the discharged original. (RDD output LOW)
Reverse motor (DRM) rpm down

Step 18: Transport motor (DTM) OFF
(Transport stop)

∗ B Step 19: Original discharge

Step 20: Reverse motor (DRM) OFF
(Reverse roller, paper exit roller stop)
(Paper feed reverse)

(Preliminary paper feed):

Step 21: Transport motor (DTM) forward rotation
Transport motor, reverse motor (DRM) forward rotation (Reverse roller, paper exit roller rotation)

Step 22: Paper feed motor (DFM) reverse rotation
(Resist roller rotation)
The original is sent to the transport section.

Step 23: Original feed sensor (DFD)
Senses the rear edge of the discharged original. (DFD output LOW)

∗ C Step 24: Paper feed solenoid (DFSOL) OFF
(The weight plate and the stopper move up.)
∗ C: If there is no original on the original tray, move up the stopper and the weight plate.

Step 25: Original width sensor (DWS) output HIGH

Step 26: Original timing sensor (DTD) senses the rear edge of the original.
(DTD output LOW)
Paper feed motor (DFM) OFF (Resist roller stop)
Reverse solenoid (DRSOL) ON (The flapper move up.)

Step 27: Reverse sensor (RDD) senses the lead edge of the original. (RDD output HIGH)

Step 28: The lead edge of the original is moved counterclockwise by the flapper.

Step 29: Transport motor (DTM) OFF
(Transport belt stop)

Step 30: Reverse motor (RDM) OFF
(Reverse roller, paper exit roller stop)

Step 31: Transport motor (DTM) OFF
(Transport belt rotation)

Step 32: Reverse motor (DRM) forward rotation
(Reverse roller, paper exit roller rotation)
The original is transported to the paper feed section.

Step 33: Paper exit sensor (RDD) senses the rear edge of the reverse original.
(RDD output LOW)

Step 34: Reverse motor (DRM) OFF
(Reverse roller, paper exit roller stop)

Step 35: Transport motor (DTM) OFF
(Transport belt stop)
Original stop

Step 36: Reverse solenoid (DRSOL) OFF
(The flapper moves down.)

Step 37: Copier mirror base scanning is started.

∗ D

DSS output

LOW (There is no original on the tray.) → After completion of mirror base scanning, go to step 64. (Reverse rotation)

HIGH (There is an original on the tray)

(Preliminary paper feed)

Step 38: Paper feed motor (DFM) forward rotation
(Paper feed roller, semi-circular roller rotation)
The original feed is started.

Step 39: Original feed sensor (DFD) senses the lead edge of the original.
(DFD output HIGH)

Step 40: Paper feed motor (DFM) OFF
The original is stopped by the resist roller.

Step 41: Paper feed motor (DFM) forward rotation
(Resist roller rotation)
The lead edge of the original is taken up by the resist roller.

Step 42: Original width sensor (DWS) senses the original width. (Output LOW)

Step 43: Original timing sensor (DTD) senses the lead edge of the original. (DTD output HIGH)

Step 44: Paper feed motor (DFM) OFF
(The original is stopped with its lead edge taken up by the resist roller.)

Step 45: Copier mirror base scanning stop

(Reverse rotation)

Step 46: Reverse solenoid (DRSOL) ON
(The flapper moves up.)

Step 47: Transport motor (DTM) forward rotation
(Transport motor rotation)
Reverse motor (DRM) forward rotation
(Rreverse roller, paper exit roller rotation)

Step 48: Reverse sensor (RDD) senses the lead edge of the original.
(RDD output HIGH)

Step 49: The lead edge of the original is moved counterclockwise by the flapper.

Step 50: Transport motor (DTM) OFF
(Transport belt stop)

Step 51: Reverse motor (DRM) OFF
(Reverse roller, paper exit roller stop)

Step 52: Transport motor (DRM) reverse rotation
(Transport belt rotation)

Step 53: Reverse motor (DRM) reverse rotation
(Reverse roller, paper exit roller rotation)
The original is transported to the paper feed section.

Step 54: Reverse sensor (RDD) senses the rear edge of the reversed original.
(RDD output LOW)

Step 55: Reverse motor (DRM) OFF
(Reverse roller, paper exit roller stop)

Step 56: Transport motor (DTM) OFF
(Transport belt stop)
Original stop

Step 57: Reverse solenoid (DRSOL) OFF
(The flapper moves down)

Step 58: Copier mirror base scanning start

Step 59: Copier mirror base scanning stop

∗ E

First-out original

NONE → After completion of mirror base scanning, go to step 82.

YES

(Paper exit paper feed reverse)

↓

Step 60: Transport motor (DTM) forward rotation
(Transport belt rotation)
Reverse motor (DRM) forward rotation
Reverse roller, paper exit roller rotation)
The original is discharged.

Step 61: Paper feed motor (DFM) reverse rotation
(Resist roller rotation)
The original is sent to the transport section.

Step 62: Original feed sensor (DFD) senses the rear edge of the original.
(DFD output LOW)

∗ C Step 63: Paper feed solenoid (DFSOL) OFF
(The weight plate and the stopper moves up.)

∗ C: When there is no original on the tray, move up the stopper and the weight plate.

Step 64: Original width sensor (DWS) output LOW

↓

Step 65: Original timing sensor (DTD) senses the rear edge of the original. (DTD output LOW)

Step 66: Reverse sensor (RDD) senses the lead edge of the discharged original.
(RDD output HIGH)

Step 67: Transport motor (DTM) rpm down

↓

Step 68: Original discharge

↓

Step 69: Reverse solenoid (DRSOL) ON
(The flapper moves up.)

Step 70: Transport motor (DTM) forward rotation
(Transport belt rotation)
Reverse motor (DRM) forward rotation
(Reverse roller, paper exit roller rotation)

Step 71: Reverse sensor (RDD) senses the lead edge of the original.
(RDD) output HIGH)

Step 72: The lead edge of the original is moved counterclockwise by the flapper.

Step 73: Transport motor (DTM) OFF
(Transport belt stop)

Step 74: Reverse motor (DRM) OFF
(Reverse roller, paper exit roller stop)

Step 75: Transport motor (DTM) reverse rotation
(Transport belt rotation)

Step 76: Reverse motor (DRM) forward rotation
(Reverse roller, paper exit roller stop)
The original is sent to the paper feed section.

↓

Step 77: Reverse sensor (RDD) senses the rear edge of the reverse original. (RDD output LOW)

Step 78: Reverse motor (RDD) senses the rear edge of the reversed original. (RDD output LOW)

Step 79: Transport motor (DTM) off
(Transport belt stop)
Original stop

Step 80: Reverse solenoid (DRSOL) OFF
(The flapper moves down.)

Step 81: Copier mirror base scanning start

∗ D ↓

DSS output: LOW (No original on the tray) → After completion of mirror base scanning, go to step 46 (reverse).

HIGH (There is an original on the tray.) → Go to step 38 (Preliminary paper feed).

↓

(Paper exit)

↓

Step 82: Transport motor (DTM) forward rotation
(Transport belt rotation)
Reverse motor (DRM) forward rotation
(Reverse roller, paper exit roller rotation)
The original is discharged.

Step 83: Reverse sensor (RDD) senses the lead edge of the discharged original.
(RDD output HIGH)

Step 84: Reverse sensor (RDD) senses the rear edge of the discharged original.
(RDD output LOW)
Transport motor (DTM) OFF
(Transport belt stop)
Reverse motor (DRM) rpm down

Step 85: Original discharge

↓

Step 86: Reverse motor (DRM) OFF
(Reverse roller, paper exit roller stop)

END

Note: ∗ A: For the first original, the preliminary paper feed operation is performed.

∗ B: When there is an original on the original tray in advance, it is discharged.

∗ C: When there is no original on the original tray, move up the weight plate and the stopper.

∗ D: When there is no original on the original tray, the original set sensor (DSS) output becomes LOW.

∗ E: It depends on whether there is any preliminary fed original in step 38 ~ step 44.

B. Original size detection

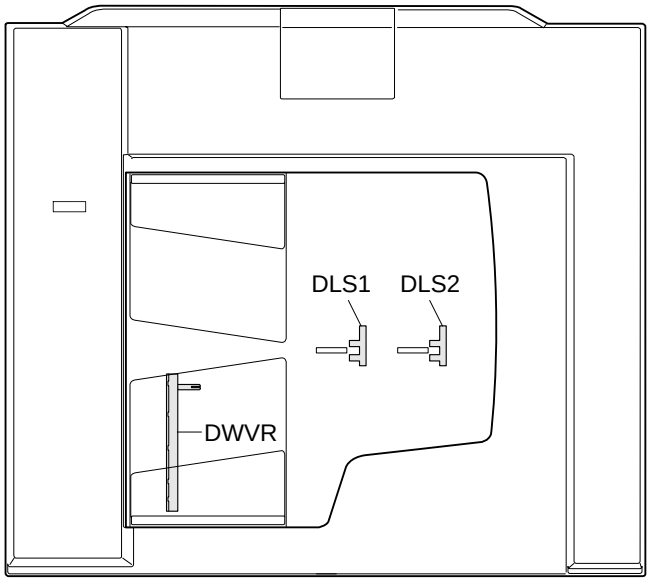
The original size is detected in three ways.

1) Original size detection by the original set tray

The original size detection by the original set tray is used in automatic paper size and automatic magnification selection mode, in order to recognize the original size when the original is set on the original tray, allowing the automatic selection of paper size and magnification ratio of copy.

When originals composed of sheets of different sizes are set, this detection method recognizes the largest sheet as the original size, which is determined by the width measured by the original width volume (DWVR) and the length measured by the original length sensors (DLS1, DLS2).

The original size is determined when the paper is sensed by the original set sensor (DSS).



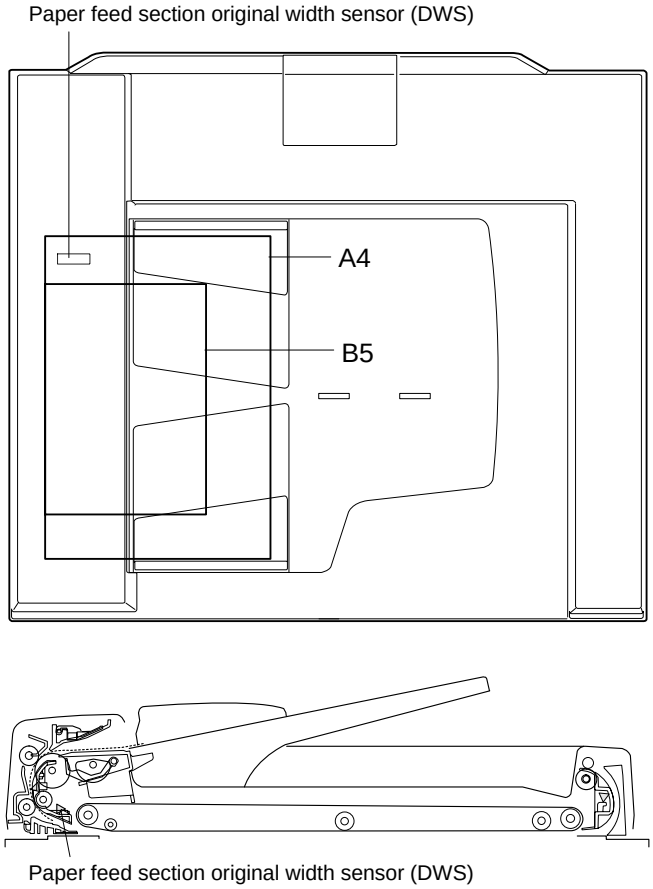
	Document size, setting orientation	ITEM 0 ○: ON or L output (sensed) ●: OFF or H output		
		DWVR	DLS1	DLS2
AB series	A4	3	●	NA
	B5	4	●	—
	A5	5	●	—
	A5R	7	●	—
	B5R	6	○	—
	A4R	5	○	—
	B4	4	○	—
	A3	3	○	—
Inch series	11" × 8.5"	0	●	●
	8.5" × 5.5"	1	●	●
	8.5" × 5.5"R	2	●	●
	11" × 8.5R"	1	○	●
	14" × 8.5"	1	○	NA
	11" × 17"	0	○	○

2) Original size detection by the original width sensor (DWS) in the paper feed section

The original size detection by the original width sensor (DWS) in the paper feed section is used in automatic paper size and automatic magnification ration selection mode to determine whether the original is A4 or A5 (11" x 8.5" or 8.5" x 5.5").

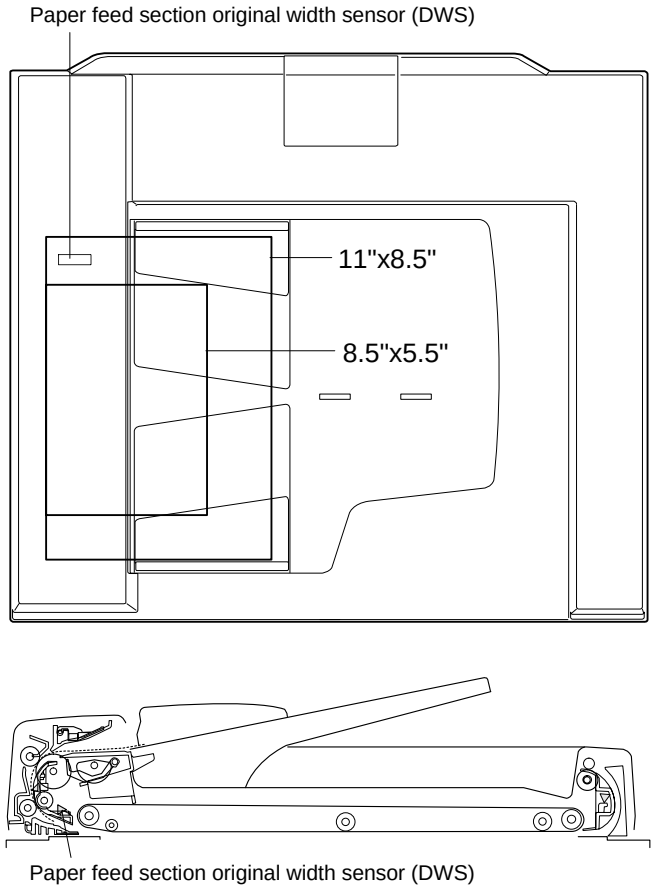
When originals composed of stacked sheets of different sizes are set in the original tray, the original size cannot be detected by the sensors in the original tray. Therefore, this function is provided to sense the original size behind the resist roller after the paper feed section has fed the original, as far as originals of A4 or A5 size (11" x 8.5" or 8.5" x 5.5") (portrait) is concerned. Consequently, if A4- and A5-size (11" x 8.5" or 8.5" x 5.5") originals (portrait) are stacked and set in the original tray, the original size detection by the paper feed section original width sensor (DWS) has the priority over the original size detection by the original set tray.

When A4- and A5-size (11" x 8.5" and 8.5" x 5.5") originals (portrait) are stacked and set in the original tray, the original length sensors (DSL1, DSL2) are not actuated. Therefore, the original width is sensed by the paper feed section original width sensor (DWS) to judge A4 or A5 (11" x 8.5" or 8.5" x 5.5").



Paper feed section original width sensor (DWS) status

Original size	○:Output LOW (Detection) ●: Output HIGH
A4	○
B5	●



Paper feed section original width sensor (DWS) status

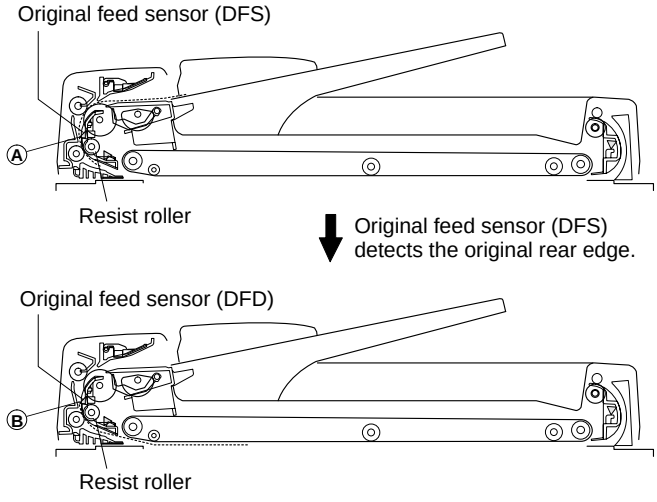
Original size	○: Output LOW (Detection) ●: Output HIGH
11" × 8.5"	○
8.5" × 5.5"	●

3) Original size detection by the paper feed motor rotation sensor (DFMRS)

This function compensates for the inaccuracy of the original size recognition in the original tray when originals of different sizes are stacked in the original tray. That is, results of this function has priority over the original size detection in the original tray. The pulses of the slit disc rotation of the feed motor (DFM) are counted in the period before the rear edge of original is sensed (DFD output LOW) by the original feed sensor after the feed motor (DFM) has started reverse rotation, that is, after the resist roller has started rotating and feeding of original from the fed section to the transport section has been started, to determine the original length.

To improve detection accuracy, the original width is sensed also by the paper feed section original width sensor (DWS).

Resist roller rotation start (The original is fed from the paper feed section.)



The paper feed motor rotation sensor (DFMRS) counts the number of rotations of the paper feed motor (DFM) between Ⓐ and Ⓑ to judge the original length.

[6] DISASSEMBLY, ASSEMBLY AND ADJUSTMENT

✳ Descriptions in this chapter excludes simple disassembly and assembly operations. Refer to the parts guide for the disassembly and assembly of parts which are not explained here.

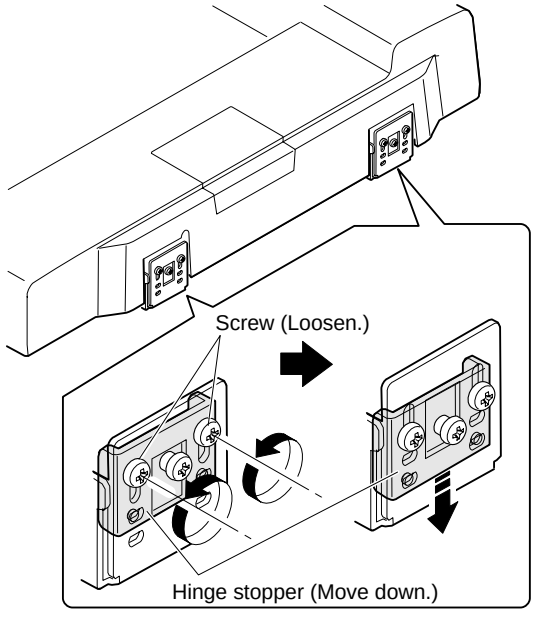
✳ Refer to the description in [7] ACTUAL WIRING DIAGRAM for the processing of the wiring during assembly.

1. Transport section opening

① Loosen two screws which are fixing the hinge stopper to allow the hinge stopper to move.

② Slide the hinge stopper downward by using the step screw, fit the dove with the hole and tighten the two fixing screws which were loosen before.

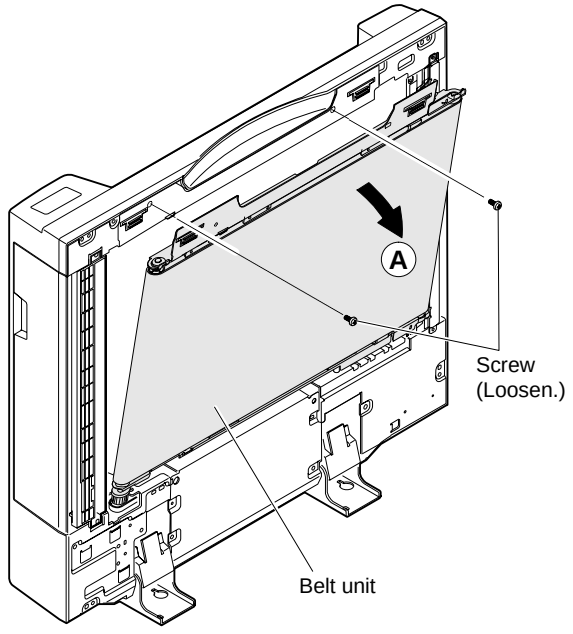
③ Open the transport section.

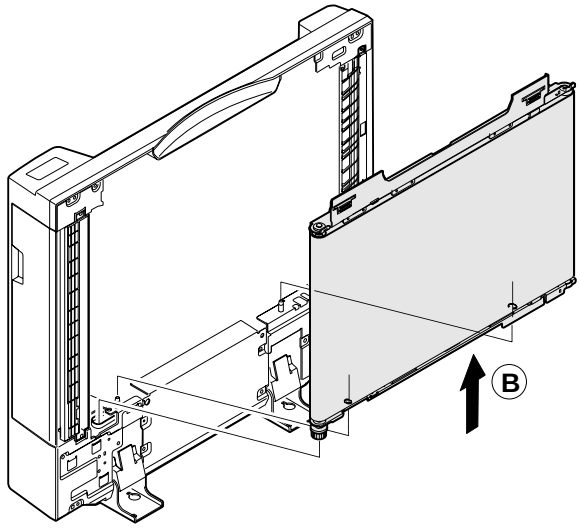


2. Belt unit disassembly

① Open the transport section.

② Remove two screws as shown in the figure below, and remove the belt unit as shown with arrow Ⓐ and arrow Ⓑ in this sequence.





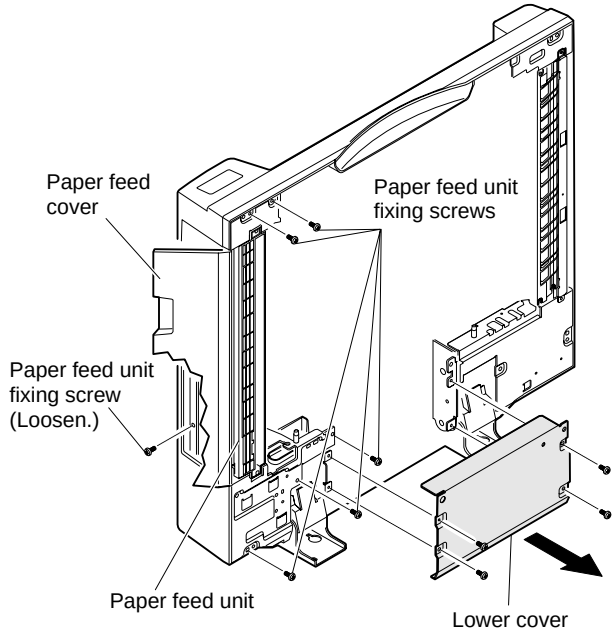
3. Paper feed unit disassembly

① Open the transport section.

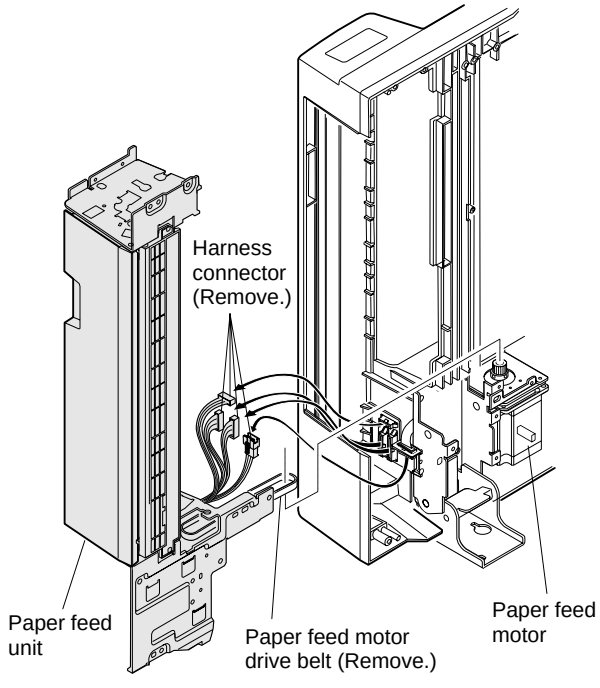
② Remove the tray. (Refer to the installing procedure.)

③ Remove four screw which are fixing the lower cover, and remove the lower cover.

④ Remove the five fixing screws of the paper feed unit, open the paper feed cover, and remove the fixing screw.



⑤ Remove the paper feed motor drive belt, and remove the four harness connectors. Then remove the paper feed unit.

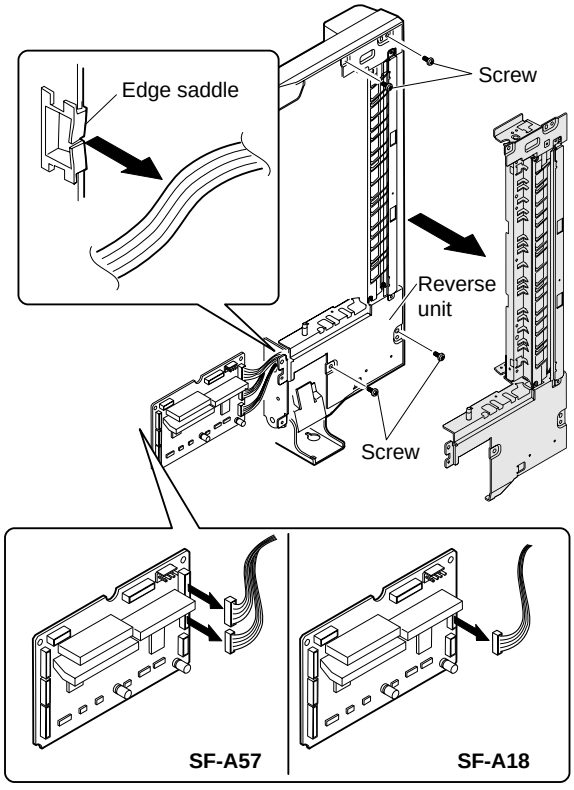


4. Paper exit unit disassembly

① Open the transport section and remove the lower cover.

② Remove the five fixing screws of the paper exit unit.

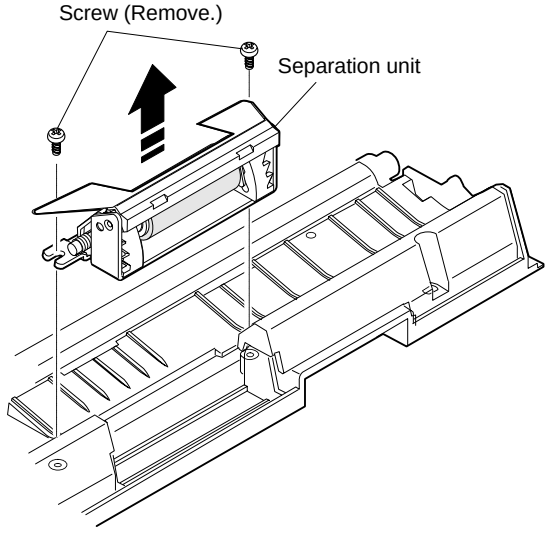
③ Remove the paper exit unit harness connector from the control PWB, and pull out the harness from the edge saddle shown in the figure below. Then remove the paper exit unit.



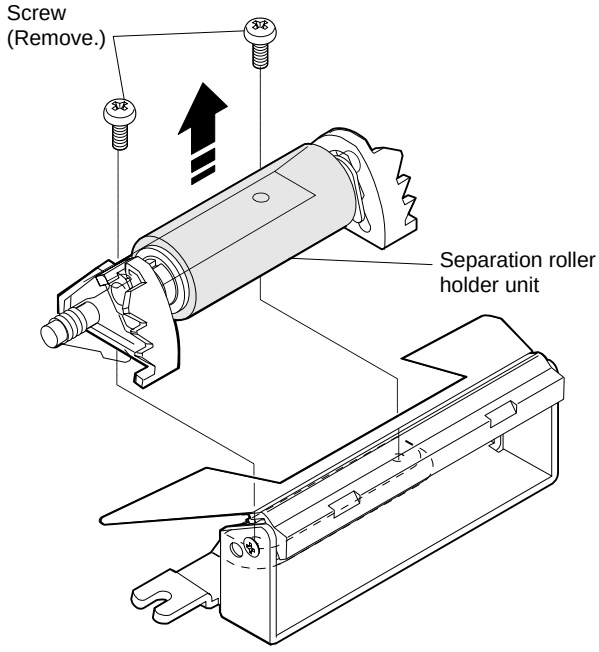
5. Separation roller disassembly

① Open the paper feed cover.

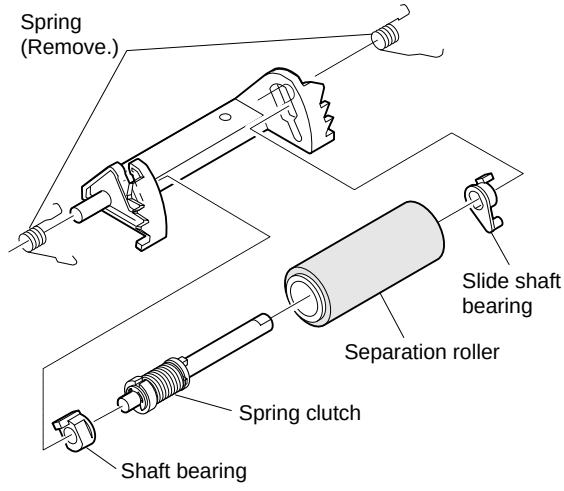
② Remove two fixing screws of the separation unit, and remove the separation unit.



③ Remove two screws from the separation unit, and remove the separation roller holder unit.



④ Remove two springs from the separation roller holder, and remove the bearing and the slide bearing. Remove the separation roller and the spring clutch.

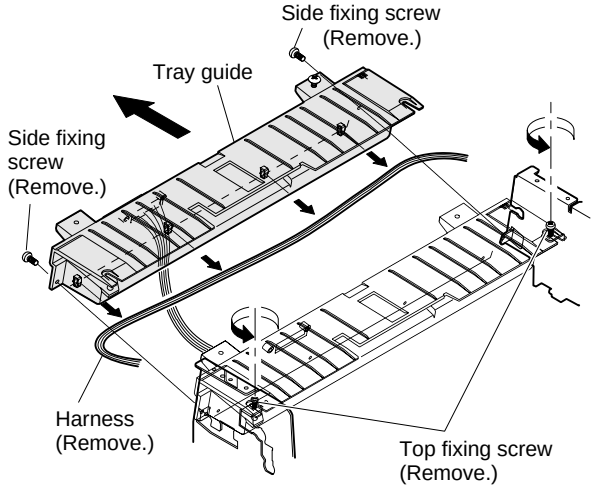


6. Semi-circular roller, paper feed roller disassembly

① Open the paper feed cover.

② Loosen two fixing screws of the tray guide top, and remove two fixing screws of the side.

③ Remove the harness from the tray guide upper, and remove the tray guide.
(Be careful not to damage the harness.)



④ Remove the snaps from the both ends of the pickup shaft and the separation shaft. (2 kinds of snaps)

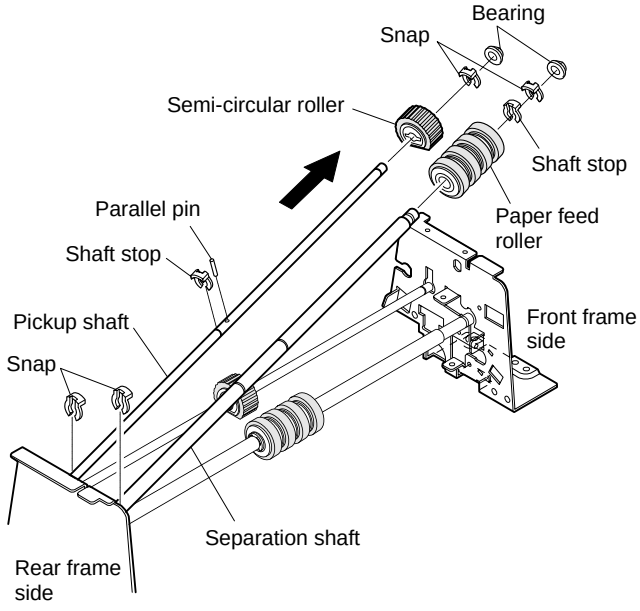
⑤ Remove the pickup shaft bearing and the separation shaft bearing on the front frame side.

⑥ Slide the pickup shaft toward the rear frame, and pull out the front frame side from the chassis.

⑦ Remove the shaft stopper and the parallel pin from the pickup shaft and remove the semi-circular shaft.

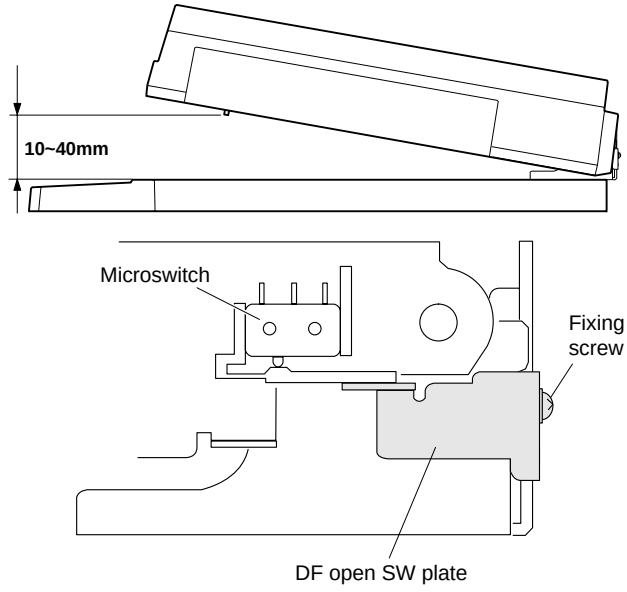
⑧ Slide the separation shaft toward the rear frame, and pull out the front frame side from the chassis.

⑨ Remove the shaft stopper from the separation shaft, and remove the paper feed roller.



7. Open/close switch attachment

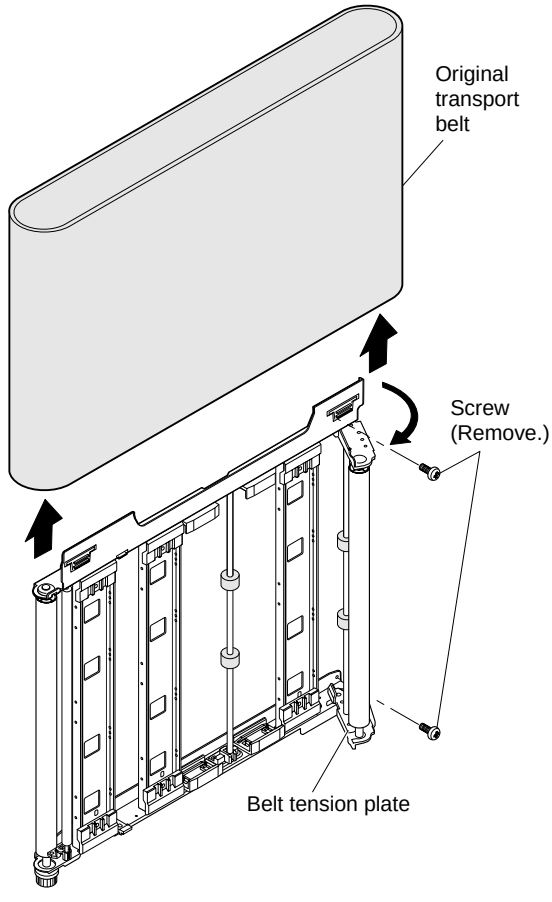
When closing the transport section from the open state, adjust the DF open SW plate so that the clearance between the glass surface and the DF spacers L and R (front side) is 10 ~ 40mm. Then tighten the fixing screw.



8. Original transport belt replacement

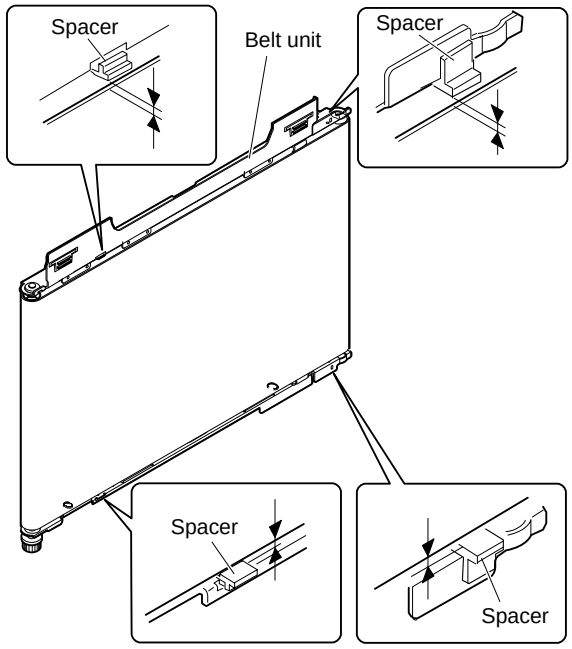
① Remove the belt unit.

② Remove the two screws shown in the figure below to allow the belt tension plate to be moved. Remove the transport belt with the left and the right in parallel.

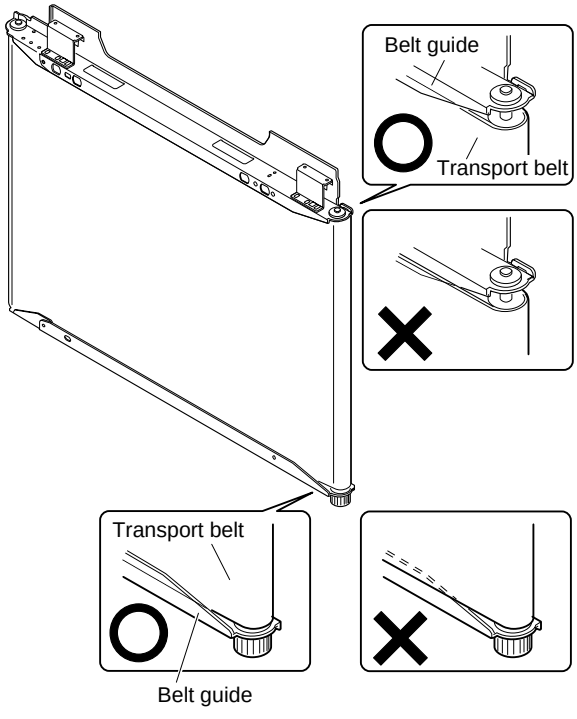


[Note for assembly]

① When installing the original transport belt, put the right and left in parallel, and allow the same clearance between the spacer and the belt in the front side and in the rear side.

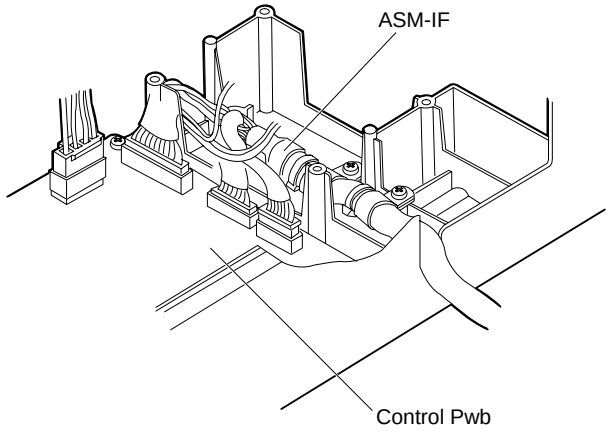


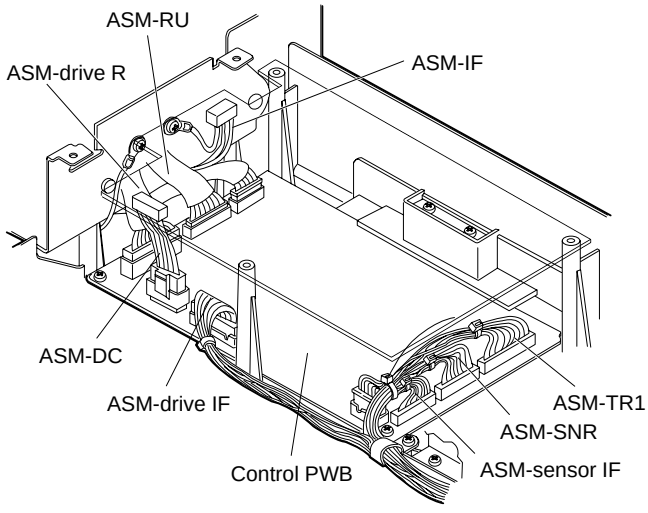
② Check that the original transport belt is not on the belt guide.

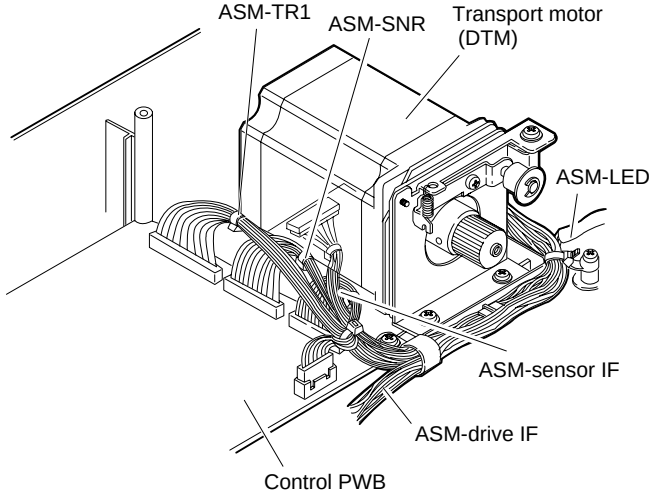


[7] CONNECTOR LAYOUT

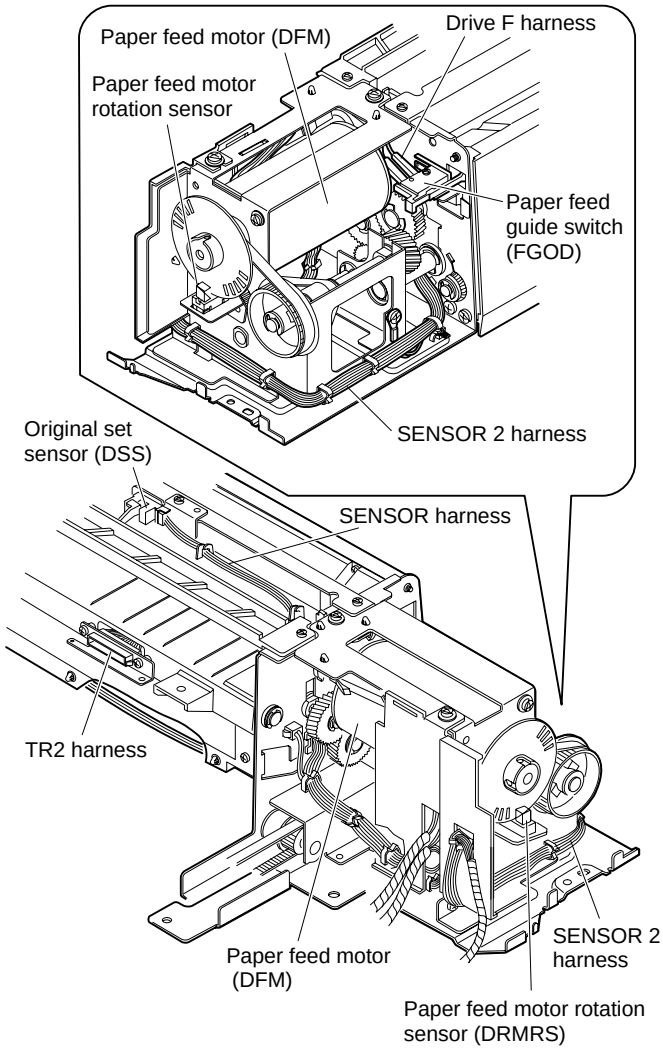
1. Control PWB peripheral



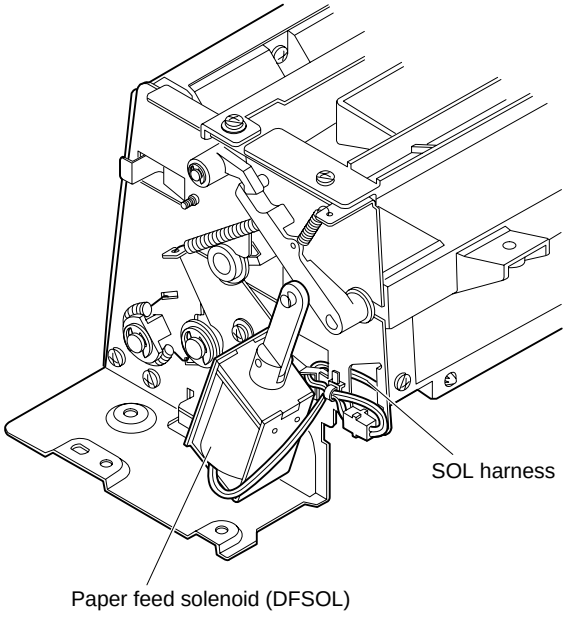




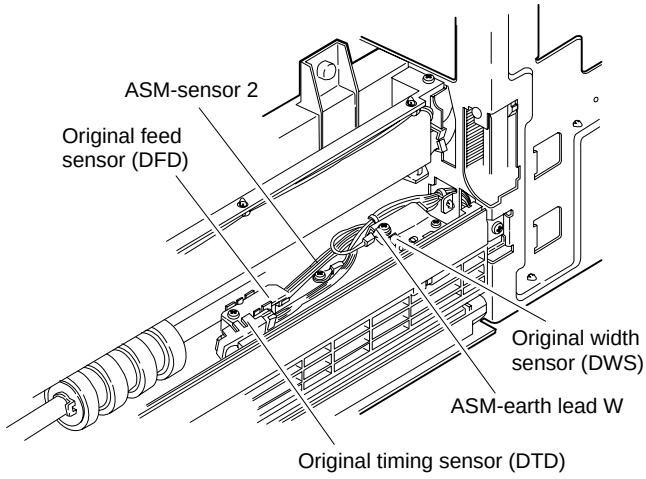
2. Paper feed motor peripheral



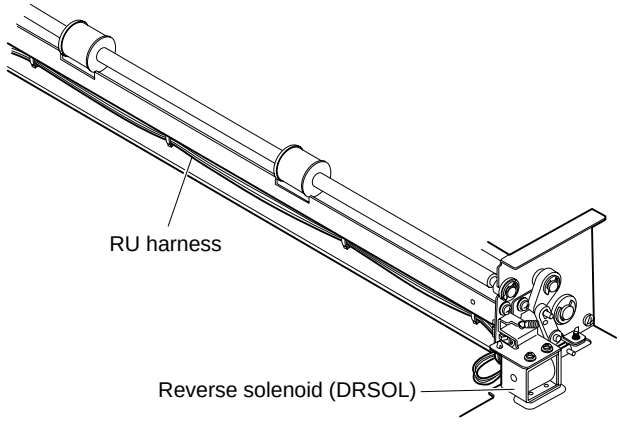
3. Paper feed section (Front side)



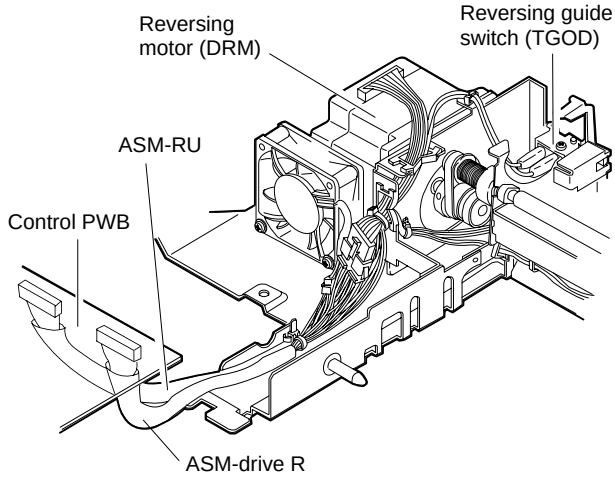
4. Paper feed unit



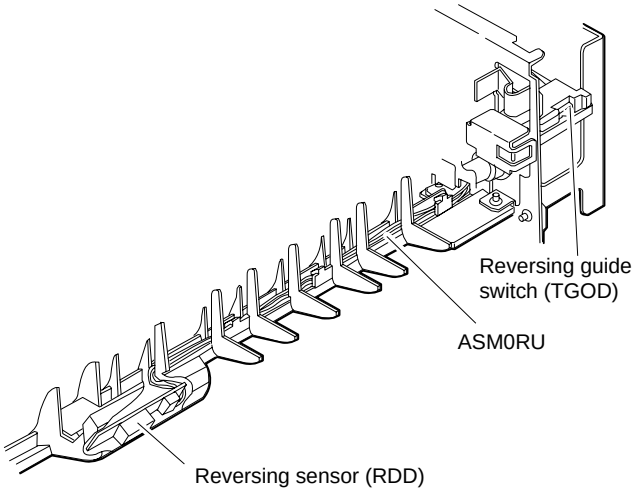
5. Reverse unit section (Front side)



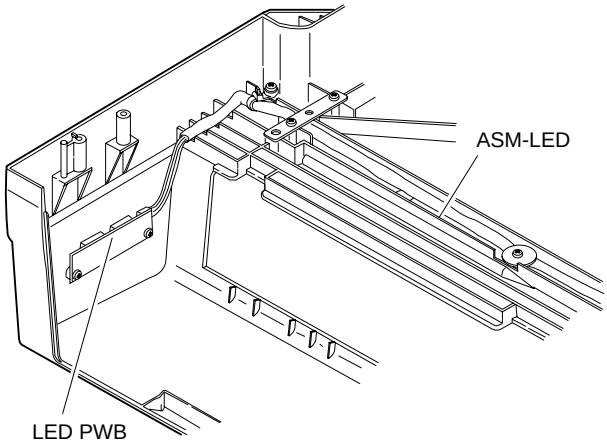
6. Reverse unit section (Rear side)



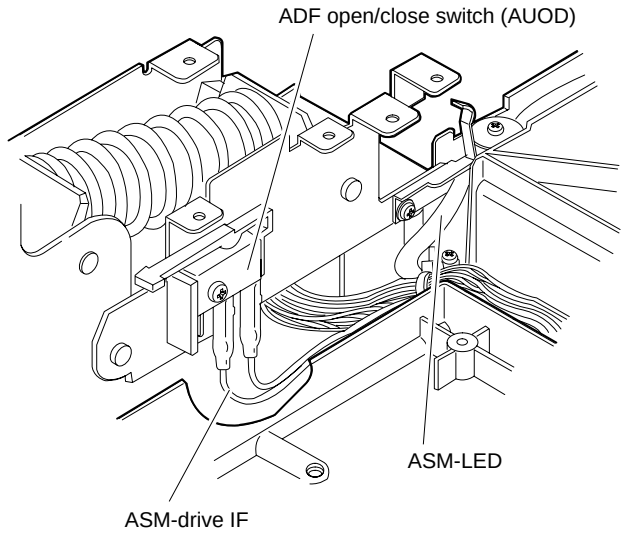
7. Reverse unit section (Reversing sensor peripheral)

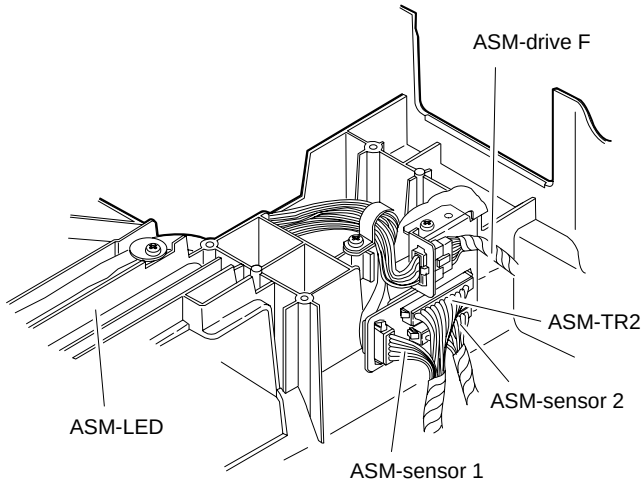


8. Paper feed section in the DF cover

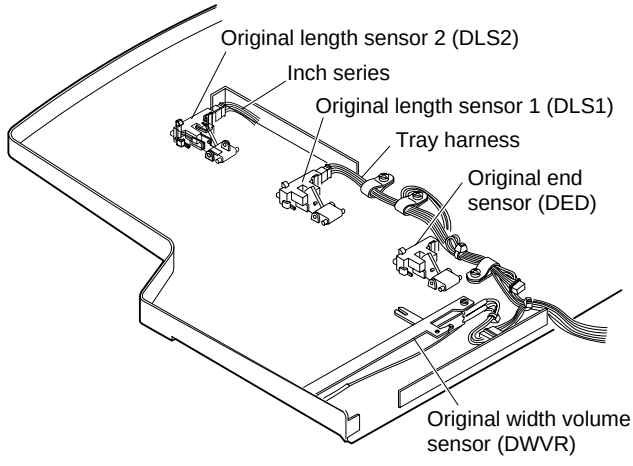


9. ADF open/close switch peripheral





10. Tray inside



[8] REPLACEMENT PARTS AND MAINTENANCE

1. Replacement parts

Part name	Replacement timing
Separation roller	100K copies
Transport belt	100K copies

2. Maintenance parts (Cleaning at every 10K copies)

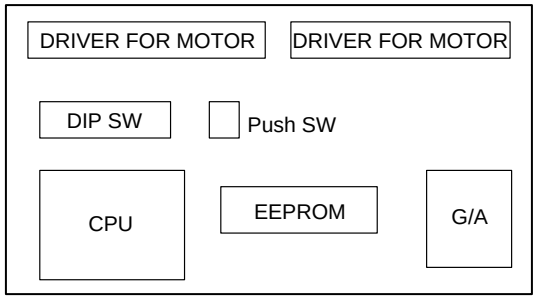
Clean the parts shown in the table below at maintenance as specified in the table.

Part name	Cleaning method
Original set sensor (DSS)	Air blow
Original feed sensor (DFD)	Air blow
Original timing sensor (DTD)	Air blow
Original width sensor (DWS)	Air blow
Paper exit sensor (DES)	Air blow
Reverse sensor (RDD)	Air blow
Paper feed roller	Wipe with alcohol.
Semi-circular roller	Wipe with alcohol.
Resist roller	Wipe with alcohol.
Paper exit roller	Wipe with alcohol.
Reverse roller	Wipe with alcohol.

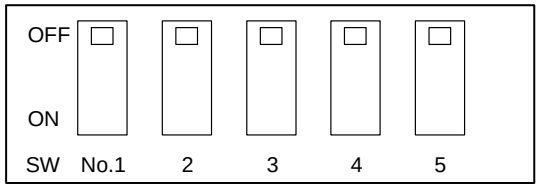
3. DIP switch

The DIP switch on the control PWB shown below allows the individual operation check of the RADF (ADF).

(1) Control PWB outline



(2) DIP switch outline



1. Entering the test mode:

   While pressing the push switch on the control PWB, supply the power, and the machine will enter the test mode.

2. Mode setting in the test mode when supplying the power

Switch	ON	OFF
Push switch	RADF individual unit operation test mode	PPC main body connection mode
DIP switch 1	For AB series	For inch series
DIP switch 2	Thin paper mode	Normal paper mode

3. Kinds of test modes and DIP switch setting

No.	Test mode	DIP switch
1	Single paper pass mode	All OFF
2	Duplex paper pass mode	1 is ON, all the others OFF
3	Single aging mode	1 and 3 ON; 2, 4, and 5 OFF
4	Duplex aging mode	4 ON, all the others OFF
5	Single paper pass mode (Thin paper mode)	3, 4 ON; 2, 5 OFF
6	Duplex paper pass mode (Thin paper mode)	1, 3, 4 ON; 2, 5 OFF
7	Load check mode	1, 5 ON; 2, 3, 4 OFF
8	EEPROM initializing mode + all sensors adjustment mode	3, 5 ON; 1, 2, 4 OFF
10	Resist sensor adjustment mode	4, 5 ON; 1, 2, 3 OFF
11	Timing sensor adjustment mode	1, 4, 5 ON; 2, 3 OFF
12	Paper reverse sensor adjustment mode	3, 4, 5 ON; 1, 2 OFF

∗ "5" and "6" are for thin paper mode (only in Japan).

4. Details of the test modes

Set the DIP switch on the control PWB, and open/close the DF to set the test mode.

Setting of the original size series (AB/Inch) and of normal/thin paper mode should be performed only when supplying the power.

(1) Single paper pass mode (paper present)

When originals are set on the paper feed tray, the original feed LED lights up. When the push switch is pressed, all the originals on the tray are fed.

(2) Duplex paper pass mode (paper present)

When originals are set on the paper feed tray, the original feed LED lights up. When the push switch is pressed, all the originals on the tray are fed.

(3) Single aging mode (without paper)

When the push switch is pressed, aging is started. The operation timing is determined by size detection of each original size.

(4) Duplex aging mode (without paper)

When the push switch is pressed, aging is started. The operation timing is determined by size detection of each original size.

(5) Thin paper single paper pass mode

When originals are set on the paper feed tray, the original feed LED lights up. When the push switch is pressed, all the originals on the tray are fed.

(6) Thin paper duplex paper pass mode

When originals are set on the paper feed tray, the original feed LED lights up. When the push switch is pressed, all the originals on the tray are fed.

(7) Load check mode

Every time when the push switch pressed, the following operation is performed in sequence repeatedly.

1. Read LED/Original remain LED ON, paper feed motor reverse rotation (500mm/sec)
2. Operation stop
3. Ready LED/Original remain LED ON, paper feed motor forward rotation (250mm/sec)
4. Operation stop
5. Ready LED/Original remain LED ON, electromagnetic clutch ON, transport motor forward rotation (800mm/sec)
6. Operation stop
7. Ready LED/Original remain LED ON, electromagnetic clutch ON, transport motor forward rotation (250mm/sec)
8. Operation stop
9. Ready LED/Original remain LED ON, electromagnetic clutch ON, transport motor forward rotation (800mm/sec)
10. Operation stop
11. Ready LED/Original remain LED ON, electromagnetic clutch ON, transport motor forward rotation (250mm/sec)
12. Operation stop
13. Ready LED/Original remain LED ON, electromagnetic clutch ON, paper feed motor synchronization forward rotation (800mm/sec)
14. Operation stop
15. Ready LED/Original remain LED ON, shutter solenoid ON
16. Operation stop
17. Ready LED/Original remain LED ON, weight solenoid ON
18. Operation stop
19. Ready LED/Original remain LED ON, electromagnetic clutch ON
20. Operation stop
21. Ready LED/Original remain LED ON, electromagnetic brake ON
22. Operation stop
23. Ready LED/Original remain LED ON, flapper solenoid ON
24. Operation stop
25. Ready LED/Original remain LED ON, shutter solenoid ON, weight solenoid ON, paper feed motor reverse rotation (500mm/sec)
26. Operation stop

Return to 1.

(8) EEPROM initializing + all sensors adjustment mode

When the push switch is pressed, the EEPROM is initialized. At that time, the LED blinks in the cycle of 100msec. After completion of initializing of the EEPROM, the LED turns ON. If there is an error in initializing of the EEPROM, the LED goes off. After initializing the EEPROM, adjust the resist sensor, the timing sensor, and the paper reversing sensor.

Jam / Error	LED display
EEPROM initializing error	Ready LED/Original remain LED OFF

(9) Resist sensor adjustment mode

(10) Timing sensor adjustment mode

(11) Paper reversing sensor adjustment mode

When the push switch pressed, the adjustment of each sensor is started. At that time, the LED blinks in the cycle of 100msec. After completion of the adjustment, the LED turns ON. If there is an error in the adjustment, the LED blinks in the cycle of 100msec.

Jam / Error	LED display
Sensor adjustment upper limit error	Original remain LED blinks in the cycle of 100msec. Ready LED goes off.
Sensor adjustment lower limit error	Original remain LED goes off. Ready LED blinks in the cycle of 100msec.

5. Kinds of errors (RADF single mode only)

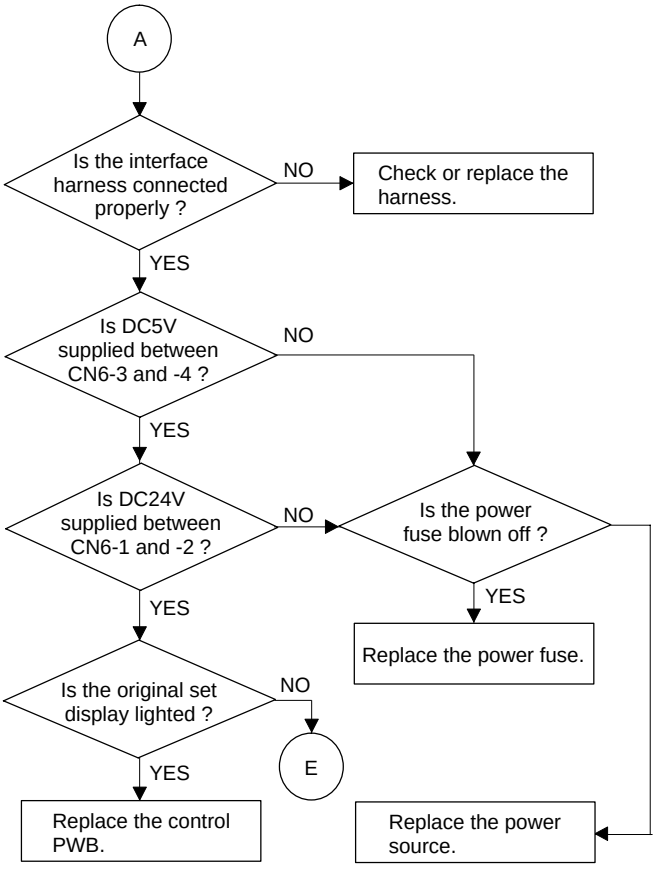
The table below lists the kinds of Jam / Errors and LED display examples.

To cancel the JAM/motor lock errors, cancel the JAM and open/close the ADF, or supply the power again.

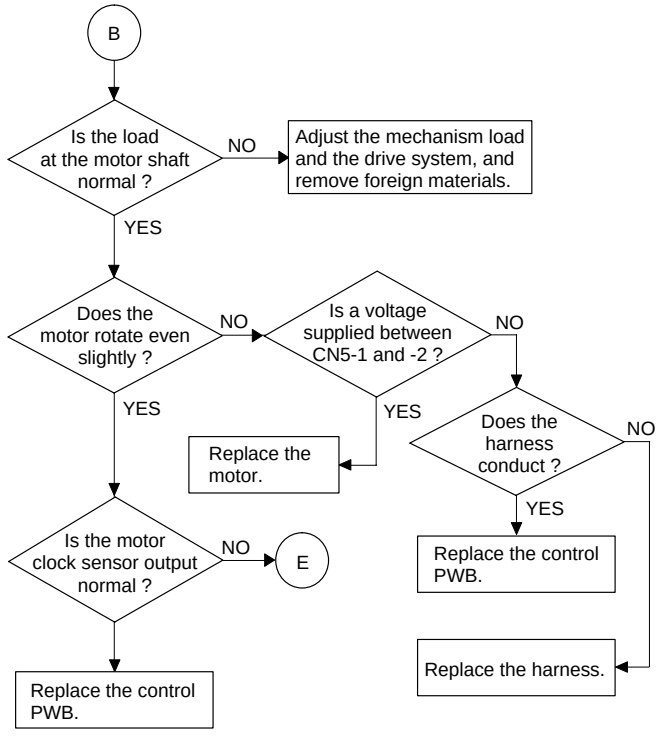
Jam / Error	LED display
Not reached/remaining JAM in the paper feed section	Original remain LED blinks in the cycle of 100msec.
Not reached/remaining JAM in the paper feed section	Ready LED blinks in the cycle of 100msec.
Paper feed motor lock error	Original remain LED blinks in the cycle of 200msec.
Paper exit motor lock error	Ready LED blinks in the cycle of 200msec.
Resist/timing sensor adjustment error (when supplying the power)	Original remain LED blinks in the cycle of 100msec.
Paper reversing sensor adjustment error (when supplying the power)	Ready LED blinks in the cycle of 100msec.

[9] TROUBLESHOOTING

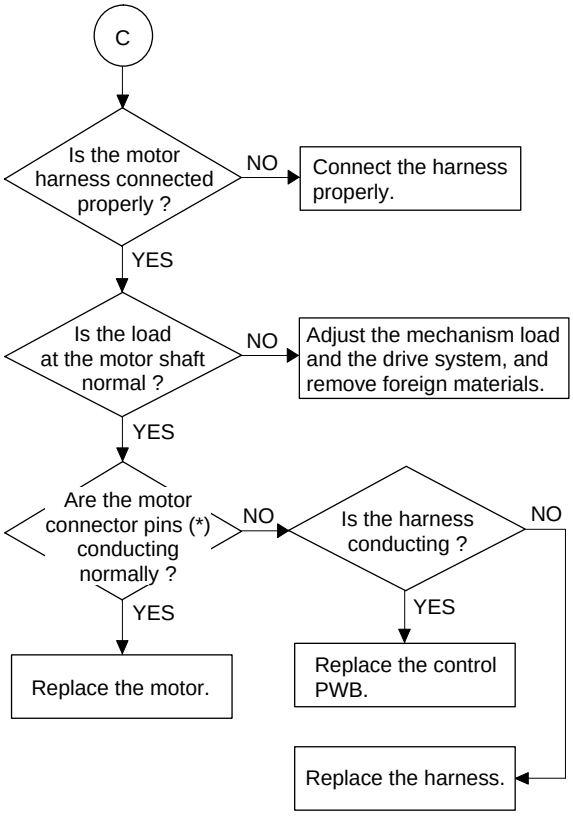
A. ADF does not operate. (Common to SF-A18/A57)



B. Motor error (DFM) (Common to SF-A18/A57)

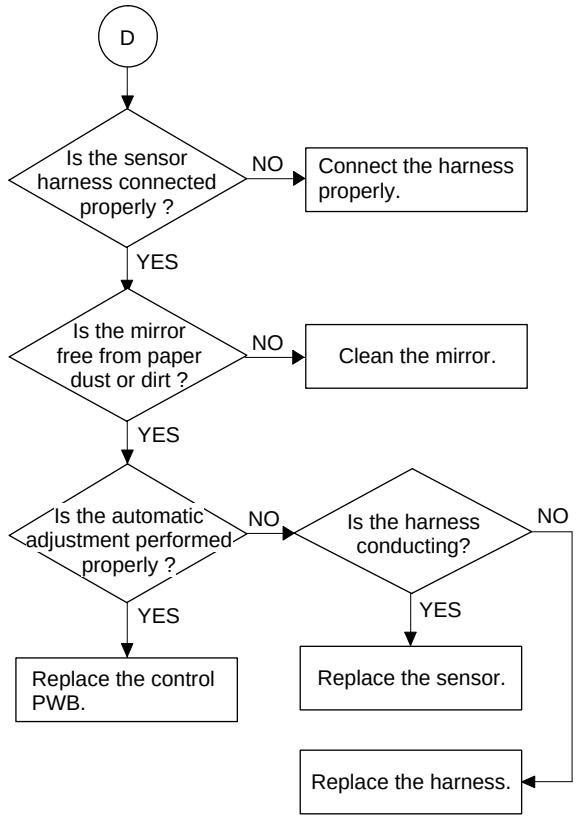


C. Motor error (DTM, DRM) (Common to SF-A18/A57)

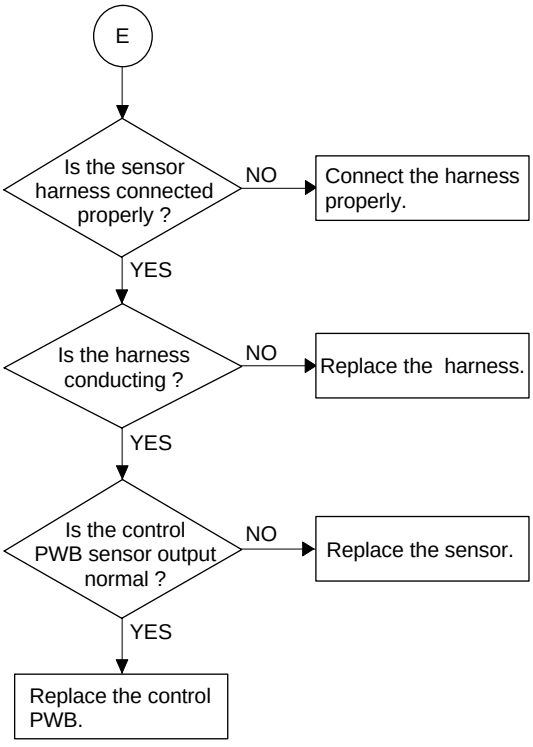


(*) DTM: Between CN4-5 and CN4-3, -4
Between CN 4-6 and CN4-1, -2
DRM: Between CN7-3 and CN4-7, -8 (SF-A57 only)
Between CN7-4 and CN4-5, -6 (SF-A57 only)

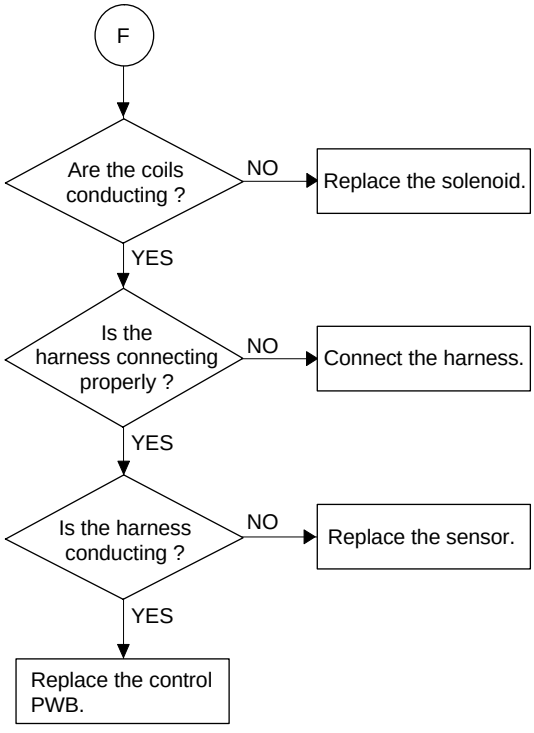
D. Sensor error (DFD, DTD) (Common to SF-A18/A57)



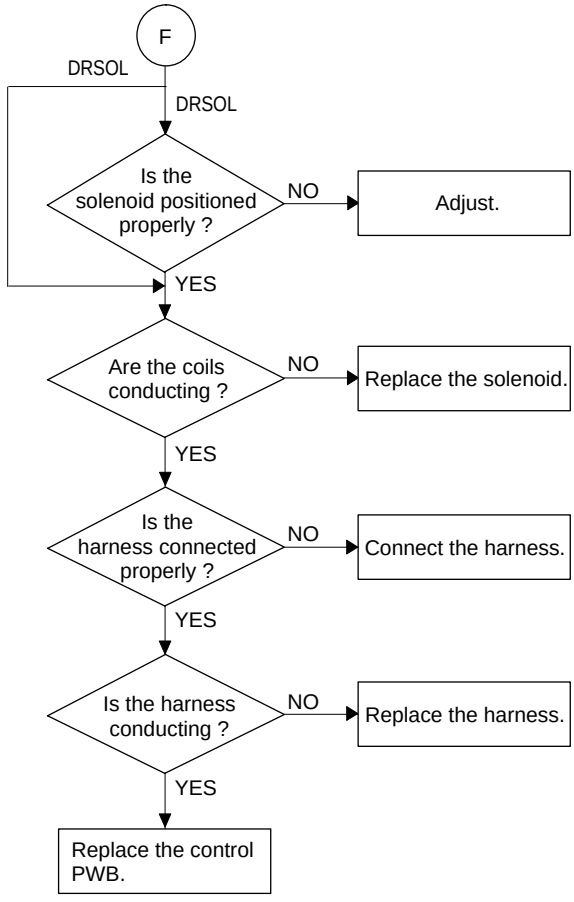
E. Sensor error (DLS1, DLS2, DED, DSS, DWS, DFMRS) (Common to SF-A18/A57)



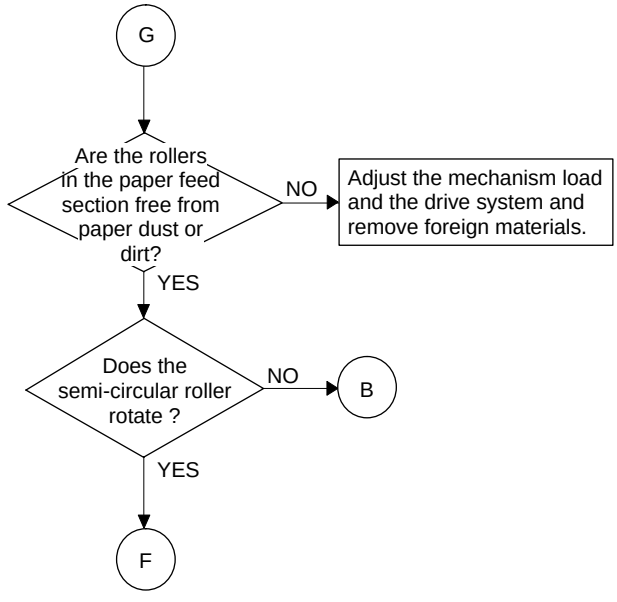
F. Solenoid error (DFSOL) (Common to SF-A18/A57)



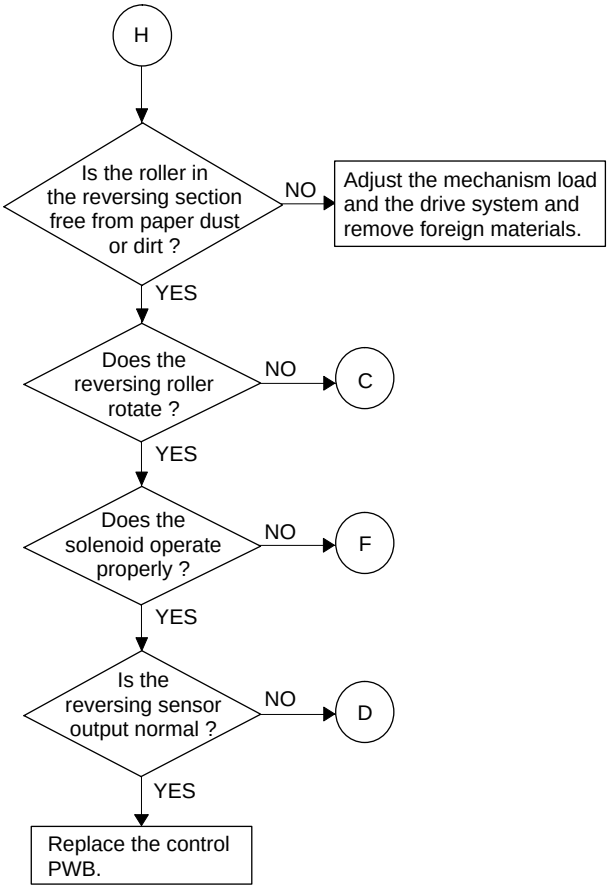
G. Solenoid error (DFSOL, DRSOL) (Common to SF-A18/A57)



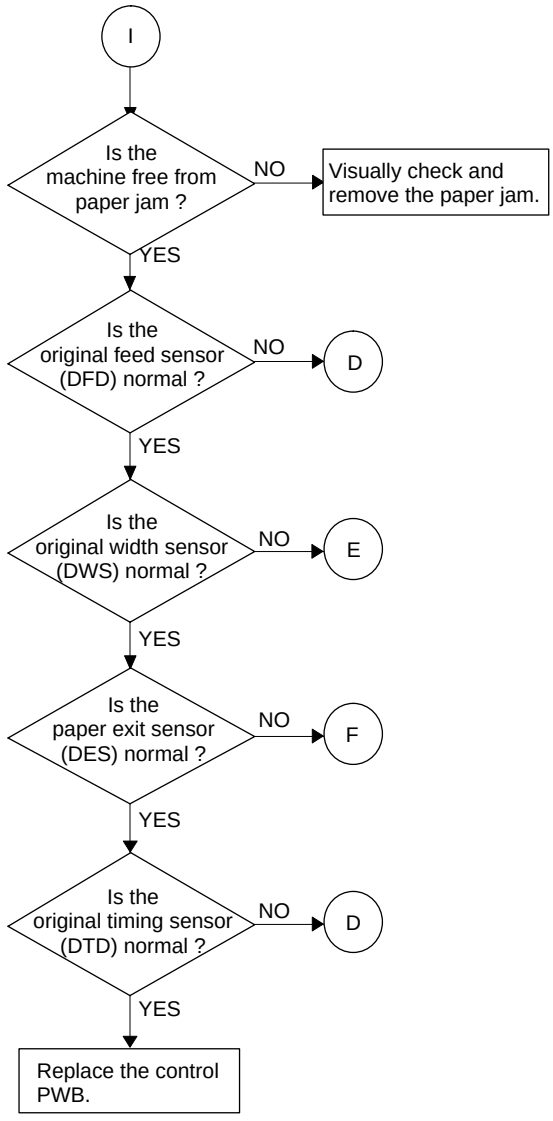
H. Originals cannot be fed. (Common to SF-A18/A57)



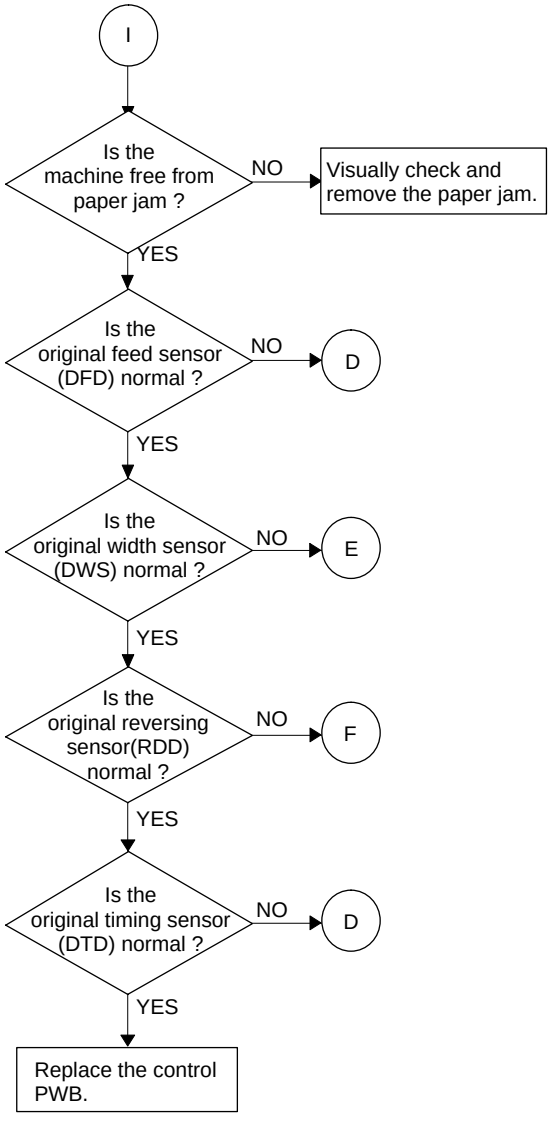
I. Originals cannot be reversed. (Common to SF-A18/A57)



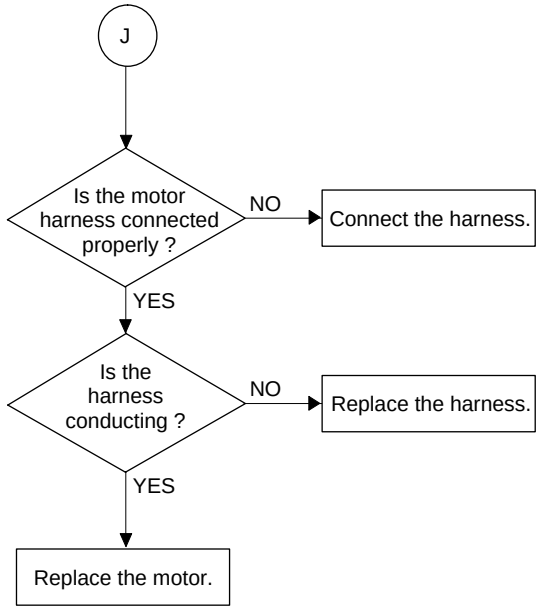
J. Paper jam (SF-A18 only)



K. Paper jam (SF-A-57 only)



L. Fan motor error (Common to SF-A18/A57)

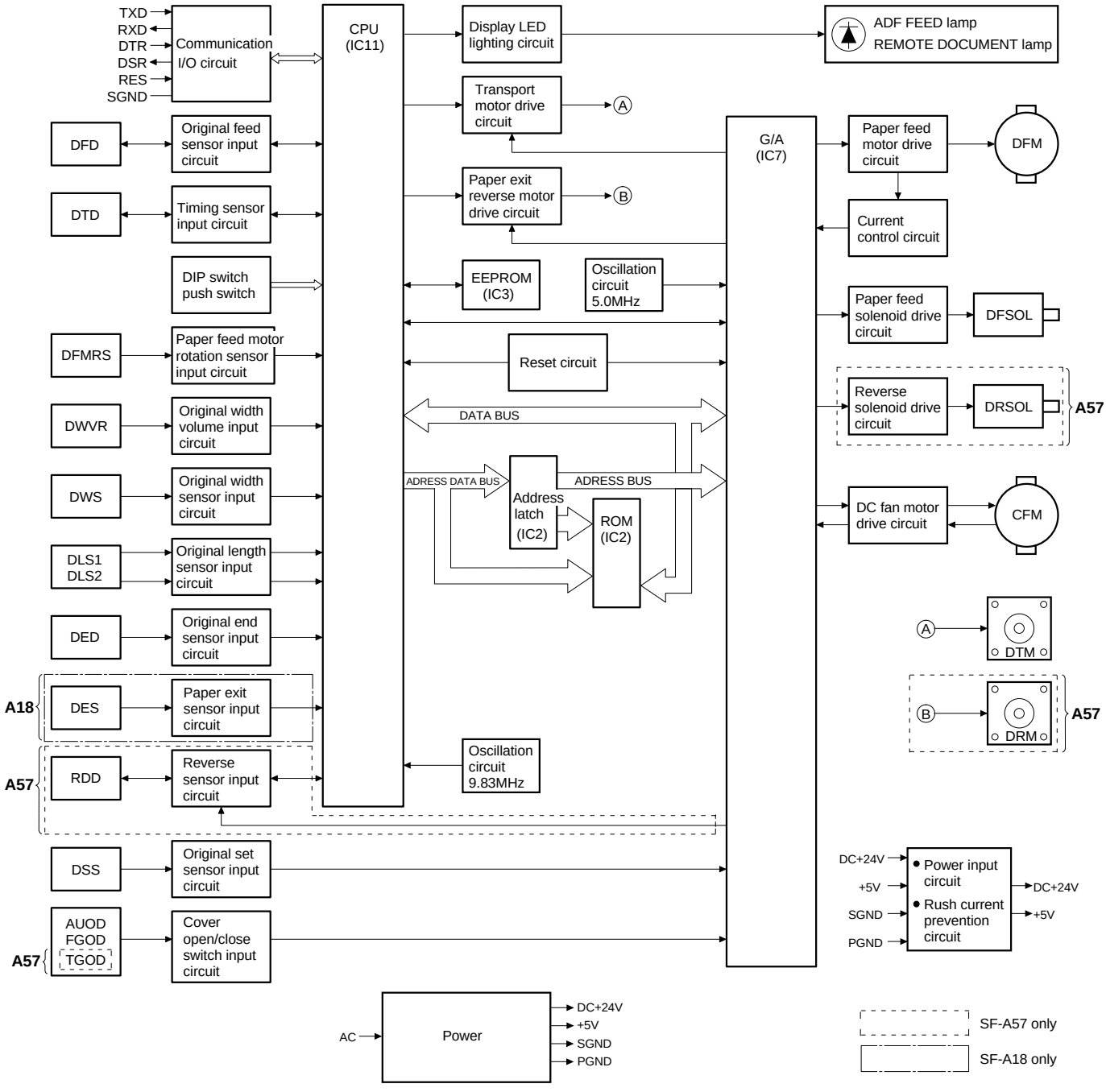


[10] ELECTRICAL SECTION

1. General

This circuit controls feeding, stopping, and reversing of the original. It is composed of sensors, switches, the circuit which processes signals from the copier PPC, the circuit which drives motors, solenoids, and clutches, the CPU, the G/A and its peripheral circuits.

2. Block diagram



3. Operations

A. Sensor input circuit

[a] Original timing sensor (DTD)

The original timing sensor is a reflection type sensor, and the LED and the photo transistor are integrated into one. Infrared light emitted from the LED is reflected by the mirror on the opposite side, and the reflected light enters the photo transistor to increase the photo current in the photo transistor, detecting "No original."

On the other hand, if there is an original between the LED and the mirror, there is no reflection from the mirror. Therefore the photo current does not increase and the original is detected.

This circuit is also provided with the automatic adjustment function.

The LED cathode is connected to the voltage-current conversion circuit composed of the operation amp (IC13), Q3, and R94. The current value is controlled with the D-A output (analog voltage output) from the CPU. That is, the operation is made so that the CPU D-A output value (IC11-67 pin) is equal to IC13 2 pin input voltage (the voltage drop of LED current by R94).

When, therefore, the D-A output value is changed, the current value is also changed.

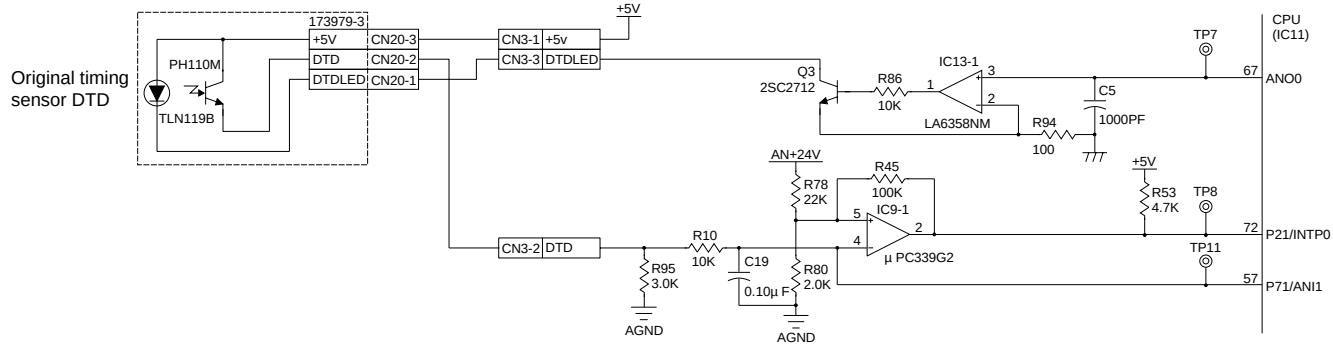
On the other hand, the photo current of the photo transistor is converted into a voltage value by load resistor R95, and is inputted to IC9 4 pin and the CPU 57 pin through the noise filter composed of R10 and C19.

R78, R80, R45, and IC9 form a voltage comparator, which compares the input voltage from the sensor with the threshold voltage (about 2V) generated by dividing +24V with R78 and R80.

When the sensor input voltage exceeds the threshold voltage, the output of IC9 2pin turns LOW, being inputted to the CPU 72 pin as "No original" signal.

The CPU 57 pin is an A-D input pin, which converts an analog voltage into a digital value inside the CPU. Since the sensitivity of a sensor generally varies, it is automatically adjusted with the sensitivity at "No original" as the reference voltage. That is, the sensor voltage at "No original" is A-D inputted to change the D-A output voltage, varying the LED current (LED light intensity) and controlling by the CPU so that the sensor voltage is the specified constant level.

The D-A output value at that time is unique to every machine, and is stored in the EEPROM (IC3).



Original timing sensor input circuit

[b] Original feed sensor (DFD)

The original feed sensor is a reflection type sensor, and the LED and the photo transistor form a pair. Infrared light emitted from the LED is reflected by the mirror on the opposite side, and the reflected light enters the photo transistor to increase the photo current in the photo transistor, detecting "No original."

On the other hand, if there is an original between the LED and the mirror, there is no reflection from the mirror. Therefore the photo current does not increase and the original is detected.

This circuit is also provided with the automatic adjustment function.

The LED cathode is connected to the voltage-current conversion circuit composed of the operation amp (IC13), Q3, and R94. The current value is controlled with the D-A output (analog voltage output) from the CPU. That is, the operation is made so that the CPU D-A output value (IC11-68 pin) is equal to IC13 5 pin input voltage (the voltage drop of LED current by R93).

When, therefore, the D-A output value is changed, the current value is also changed.

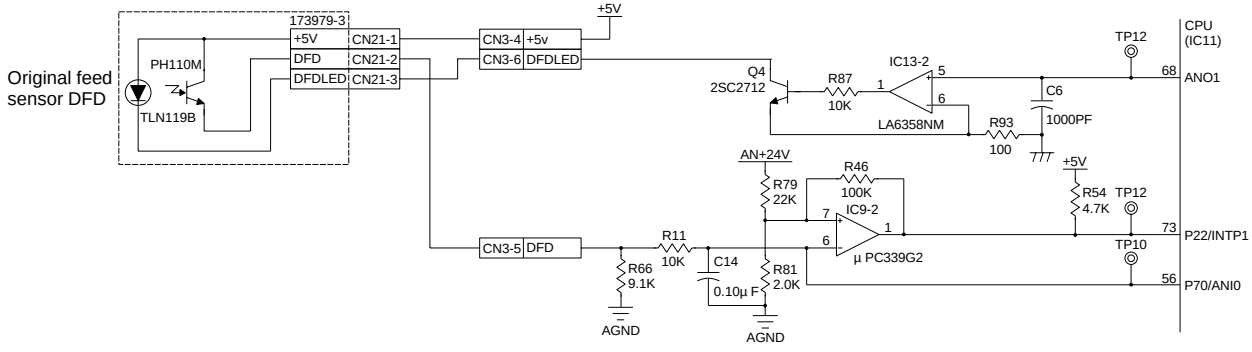
On the other hand, the photo current of the photo transistor is converted into a voltage value by emitter resistor R66, and is inputted to IC9 6 pin and the CPU 56 pin through the noise filter composed of R101and C14.

R79, R81, R46, and IC9 form a voltage comparator, which compares the input voltage from the sensor with the threshold voltage (about 2V) generated by dividing +24V with R79 and R81.

When the sensor input voltage exceeds the threshold voltage, the output of IC9 1pin turns LOW, being inputted to the CPU 73 pin as "No original" signal.

The CPU 56 pin is an A-D input pin, which converts an analog voltage into a digital value inside the CPU. Since the sensitivity of a sensor generally varies, it is automatically adjusted with the sensitivity at "No original" as the reference voltage. That is, the sensor voltage at "No original" is A-D inputted to change the D-A output voltage, varying the LED current (LED light intensity) and controlling by the CPU so that the sensor voltage is the specified constant level.

The D-A output value at that time is unique to every machine, and is stored in the EEPROM (IC3).



Original feed sensor input circuit

[c] Reverse sensor (RDD) --- SF-A57 only

The reverse sensor is a reflection type sensor, and the LED and the photo transistor are integrated into one. Infrared light emitted from the LED is reflected by the mirror on the opposite side, and the reflected light enters the photo transistor to increase the photo current in the photo transistor, detecting "No original."

On the other hand, if there is an original between the LED and the mirror, there is no reflection from the mirror. Therefore the photo current does not increase and the original is detected.

This circuit is also provided with the automatic adjustment function.

The LED cathode is connected to the circuit composed of R107, R108, and Q17. A high level or a low level input is passed to the base of Q17 to vary the LED light quantity.

The base of Q17 is connected to the CPU 49 pin. When the CPU outputs a low level signal, Q17 is turned off and all forward current in the LED flows through R108.

On the contrary, when the CPU outputs a high level signal, Q17 is turned on and the forward current in the LED flows through R108 and R107 in parallel. That is, the forward current in the LED is doubled, increasing the light quantity.

On the other hand, the output voltage of the photo transistor is inputted through the noise filter composed of R32 and C20 to IC9 10 pin.

IC9 and R48 form a voltage comparator, which compares the sensor output voltage inputted to 10 pin and the threshold voltage inputted to 11 pin.

When the sensor output voltage is lower than the threshold voltage, the output at IC9 13 pin turns HIGH and the "original present" signal is inputted to the CPU (IC11) 75 pin.

Since the sensitivity of a sensor generally varies, it is automatically adjusted with the sensitivity at "No original" as the reference voltage. That is, the sensor voltage at "No original" is reduced into 1/3 by R74 and R63 and inputted to the CPU 58 pin.

At that time, the base of Q17 is at LOW level and the light quantity of the LED is kept low. The CPU 58 pin is an A-D input pin, which allows conversion of an analog voltage into a digital voltage in the CPU. When the sensor output voltage inputted to the CPU is in the range of 1V ~ 4.5V, the gate array outputs from 18 pin the PWM signal of the duty corresponding to the voltage inputted to the CPU 58 pin.

The PWM signal is inputted to the integral circuit composed of R31 and C46 and converted into an analog voltage to be inputted to IC14 3 pin.

The converted analog output is the same as the sensor output voltage inputted to the CPU.

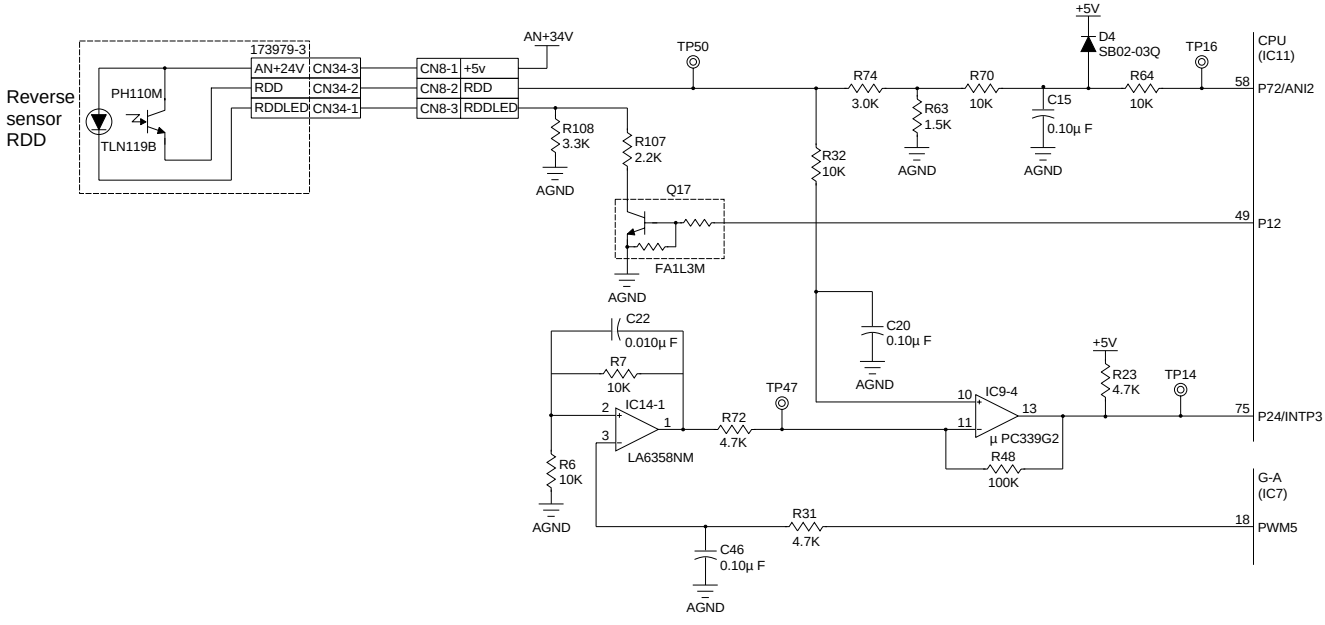
C22, R7, R6, and IC14 form a non-reverse amplifier, which amplifies the analog voltage inputted to IC14 3 pin to be double and outputs from 1 pin.

The output voltage is inputted to IC9 11pin as the threshold voltage, and compared with the sensor output voltage. That is, the threshold value is set to 2/3 of the HIGH level of each sensor output. When the sensor output voltage inputted to the CPU 58 pin is lower than 1V, the gate array 18 pin outputs a HIGH level signal to increase light quantity of the LED. If the output voltage is increased to the range of 1V ~ 4.5V by this, the threshold value setting similar to the above is performed.

If the sensor output voltage remains lower than 1V even though the light quantity of the LED is increased, it is judged as a sensor error.

If the sensor output voltage inputted to the CPU 58 pin is greater than 4.5V, the threshold value cannot be set and it is judged as a sensor error.

The set threshold voltage and the logic of CPU 49 pin when setting are unique to each machine and stored in the EEPROM (IC3).

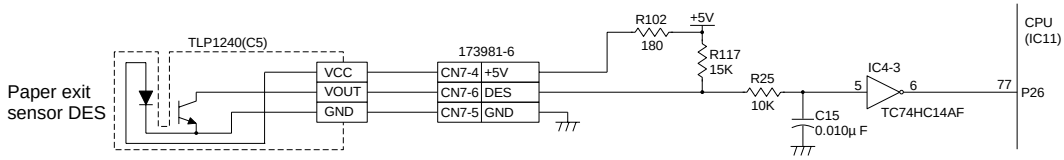


Reverse sensor input circuit

[d] Paper exit sensor (DES) --- SF-A18 only

The DES uses a photo interrupter which is integrated with the light emitting diode and the photo transistor.

When there is an original, the lever-type actuator interrupts the optical path. The signal is passed the noise filter composed of R25, C15 and Schmidt trigger invertor (IC4) to the CPU (IC11 77 pin).

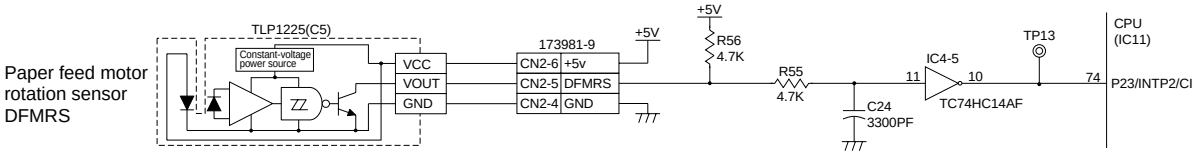


Paper exit sensor input circuit

[e] Paper feed motor rotation sensor (DFMRS)

This sensor senses rotation of the paper feed motor, and is composed of the photo interrupter built in the amplifier and the slit disc attached to the motor shaft. The pulse signals corresponding to the motor speed are obtained. the motor rotation speed is sensed from the frequency of the pulse signals, and the motor rotation amount is sensed by counting the pulse numbers.

The input section of signals is a noise filter composed of R55, C24, and Schmidt trigger invertor, which processes signals.



Paper feed motor rotation sensor input circuit

[f] Tray original size sensor, volume circuit

This circuit senses the original size on the tray, and its sensor section is built in the tray.

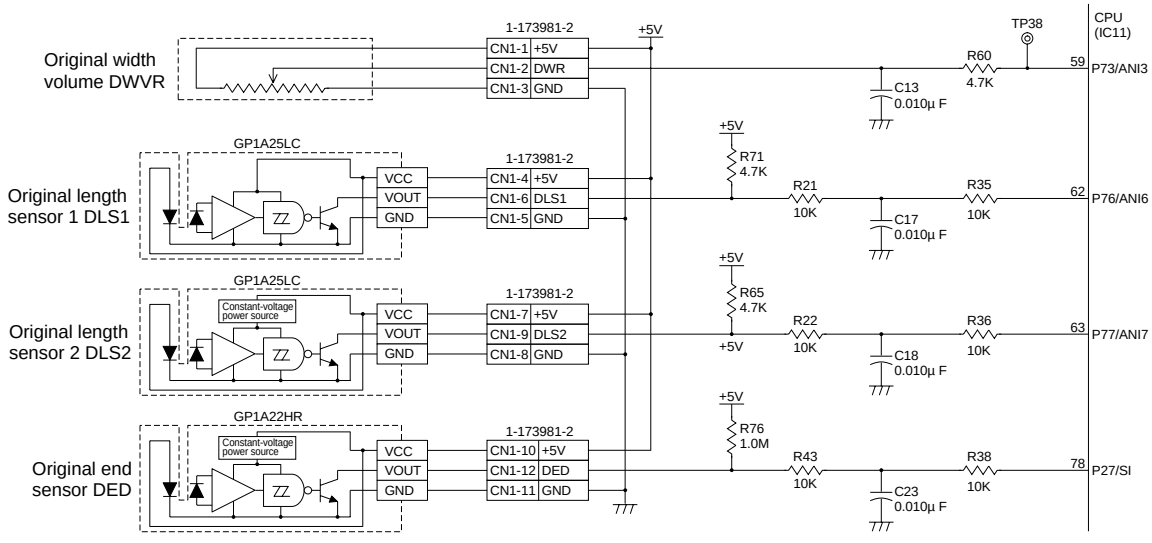
The original width is sensed by the slide volume (DWVR), and the original length is sensed by the two photo interrupters (DLS1, DLS2). (Only DSL1 for AB series)

The DWVR varies the resistance of the variable resistor with the lever attached to the original guide, and the variation is sensed as the voltage value.

The signal is analog-inputted to the CPU A-D input pin (IC11 59 pin). On the other hand, DSL1 and DSL2 use the photo interrupter which is integrated with the light emitting diode and the photo transistor. When there is an original, the lever-type actuator interrupts the optical path. The signal is inputted through the noise filter to the CPU.

DSL1: IC11 62 pin
DSL2: IC11 63 pin

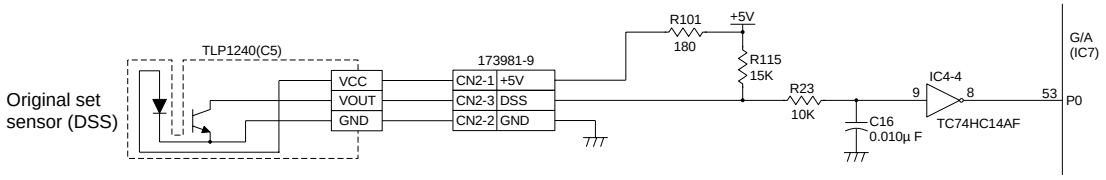
The original end sensor (DED) which senses the third original also uses a photo interrupter, and the signal is inputted through the noise filter to the CPU (IC11 78 pin).



Tray original size sensor circuit

[g] Original set sensor (DSS)

The DSS uses a photo interrupter which is integrated with a light emitting diode and a photo transistor. The signal is passed through the noise filter composed of R23, C16, and Schmidt trigger invertor (IC4) to the gate array (IC7 53 pin), then passed through the data bus to the CPU.



Original set sensor input circuit

[h] Original width sensor (DWS)

The DWS uses a photo interrupter which is integrated with a light emitting diode and a photo transistor. When there is an original, the lever-type actuator interrupts the optical path.

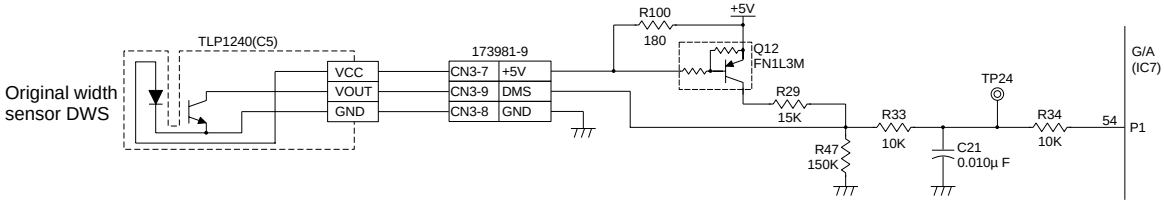
The circuit composed of Q12, R100, R29, and R47 is the connector disconnection sense circuit. When the connectors are not disconnected, the base voltage (5V) of Q12 is divided by R100 and the LED of the photo interrupter to be about 1.2V, conducting the transistor.

At that time, the photo transistor is turned off under "paper empty" state, and the collector current of Q12 flows into R47.

Therefore, the signal DWS turns HIGH by the value (about 4.5V) obtained by dividing +5V with R49 and R47. When in "Paper present," the photo interrupter turns ON and the collector current of Q12 flows into the photo interrupter. As a result, signal DWS turns LOW.

On the other hand, when a connector is disconnected, the base voltage of Q12 becomes +5V, turning off the transistor. Therefore, signal DWS turns LOW and it is judged as "Paper present."

Signals are inputted through the noise filter composed of R33 and C21 to the gate array (IC7 54 pin).



Original width sensor input circuit

[i] Open/close switch (AUOD, FGOD, TGOD) input circuit (TGOD --- SF-A56 only)

This circuit senses open/close of the ADF unit, the paper feed guide, and the reverse guide, and is connected with three microswitches. Any switch is closed when its open/close section is closed.

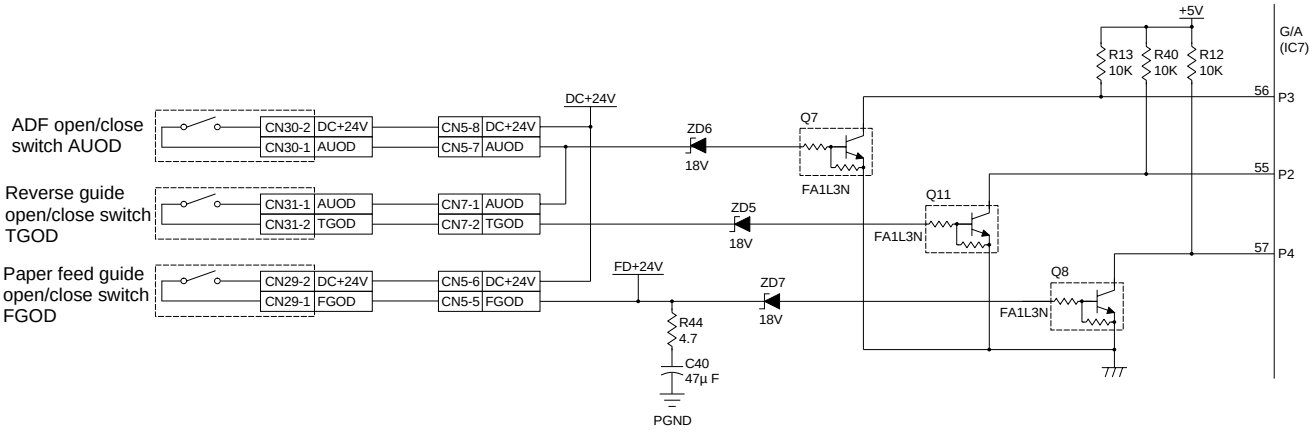
The FGOD directly opens/closes the power to the paper feed motor and the paper feed solenoid. If the FGOD is not closed, the power is not supplied to the paper feed motor and the paper feed solenoid.

The AUOD and the TGOD are connected in series to +24V, and directly close the power to the drive sections except for the paper feed motor and the paper feed solenoid. That is, the power is supplied to the drive sections except for the paper feed motor and the paper feed solenoid only when the two switches (AUOD, TGOD) are closed.

When the paper feed guide open/close switch is turned on, +24V is applied to the cathode of ZD7, supplying the base current to Q8, conducting Q8, supplying an open/close signal (a close signal in this case) to IC7 57 pin.

Operations in the other open/close switch circuits are the same as above, and each open/close signal is inputted to IC7.

R44 and C40 form a snubber circuit which absorbs an induced voltage generated when the open/close switch is opened during rotation of the DC motor.



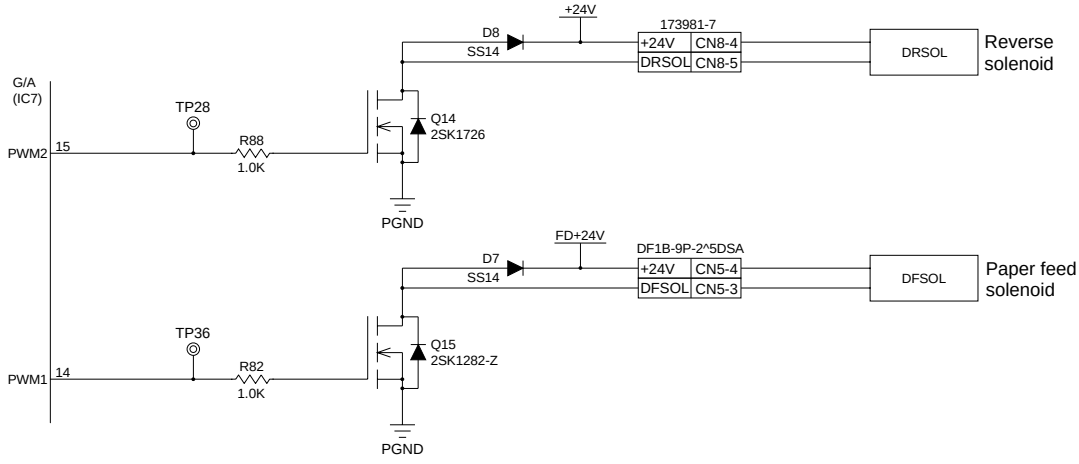
Open/close switch input circuit

B. Solenoid drive circuit

[a] Paper feed solenoid (DFSOL), reverse solenoid (DRSOL) drive circuit (DRSOL --- SF-A57 only)

This circuit drives the weight plate which presses the bundle of originals on the tray, the paper feed solenoid which drives the paper feed section shutter, and the reverse solenoid which drives the reverse guide to lead an original to the reverse path when reversing. The basic composition is the same. The drive signal (ON at HIGH) from the gate array is inputted to the gate of FET (Q14, Q15).

The ON duty of the drive signal can be varied from 0 to 100% (255 steps). The frequency, however, is 20kHz.



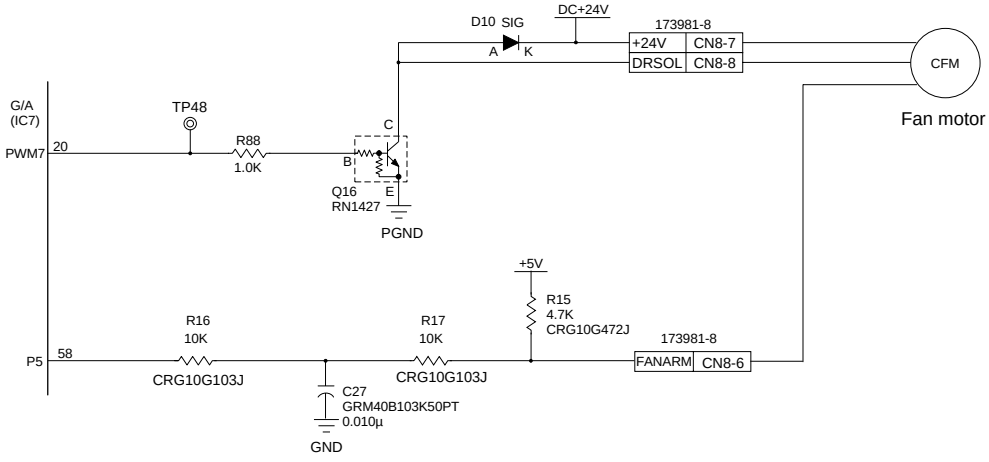
Solenoid drive circuit

C. Fan motor drive circuit

The fan motor is provided with the lock detection function to cool the power source and the control PWB.

When a HIGH level is outputted from the gate array (IC7-20pin), the transistor (Q16) conducts to drive the fan motor. At that time, the lock detection signal is outputted from the fan motor. In normal operations, a LOW level is outputted and transmitted to the gate array (IC7-58pin).

In case of abnormal operation, a HIGH level is outputted.



Fan motor drive circuit

D. Other circuit

[a] EEPROM (IC3) circuit

This circuit serves as a memory to save the sensitivity data of the reflection type sensors, the adjustment values such as the original set position on the original table, and the counter values such as the number of originals passed. Data communication with the CPU (IC11) is performed with the 3-wire serial interface.

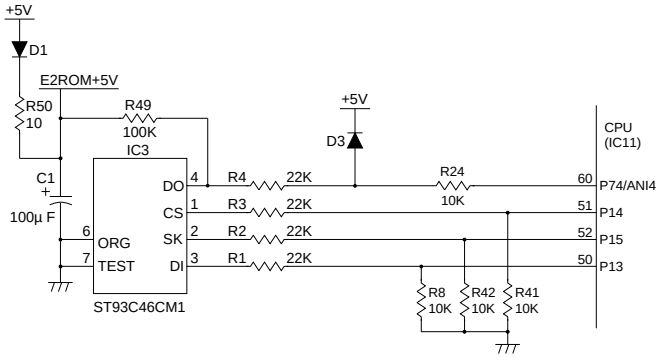
The saved data are maintained even when the power is turned off.

IC3 1 pin is the chip select pin, which is driven to HIGH when data communication is performed.

2 pin is the serial lock pin, and the serial data are transmitted in synchronization with the clock inputted to this pin.

3 pin is the input pin of serial data from the CPU. 4 pin is the output pin of serial data from IC3.

D1, R50, and C1 form a circuit which keeps the power of IC3 at a constant level even when a sudden power drop occurs during data writing.



EEPROM circuit

[b] Reset circuit

This circuit generates reset signals for the CPU and the external G/A, and is composed of IC6 and its peripheral circuits.

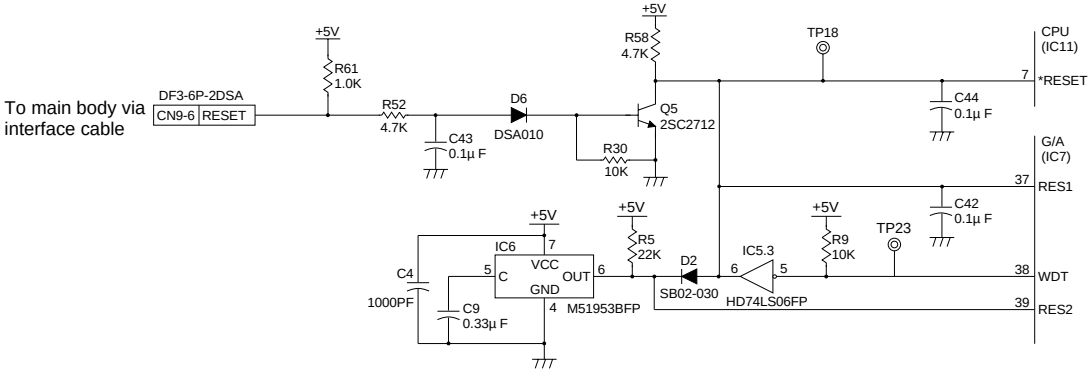
IC6 is provided with the reset function activated when the power is turned on and when the power falls below +5V.

The reset state is maintained until a certain time passes from when the power voltage reaches about 4.3V after supplying the power. The reset maintaining time depends on the capacity of C9.

This circuit is also provided with the watch-dog timer function.

The watch-dog timer is built in the G/A (IC7) and is operated when RES2 turns HIGH. It monitors hung-up or other abnormalities of the CPU. RES2 is reset for the watch-dog timer in the G/A, and is separated from the CPU and RES1 of the G/A by D2. Therefore, the CPU reset and the G/A RES1 do not turn HIGH prior to RES2.

For monitoring, data (initial values) are written from the CPU to the G/A once for every 5ms. (Resetting to the initial values every 5ms.) The data are counted down inside the G/A. Since the values are reset to the initial values every 5ms, the count normally does not fall to zero. If, however, a hung-up of the CPU occurs, the data are not reset to the initial values, and the counter becomes zero. At that time, resetting is performed from the G/A to the CPU and the G/A (RES1), and retry is performed until the CPU is resumed.



Reset circuit

[c] Paper feed motor (DFM) drive circuit

This circuit controls the paper feed motor rotation and stop and the rotating direction. It is composed of the G/A (IC7) and the exclusive hybrid IC (IC10), etc.

The motor rotation, stop, and rotating direction are controlled by the combination of binary logics inputted to the G/A through the data bus from the CPU.

This provides control signals to the G/A 65 ~ 68 pins.

The G/A 65 pin and 66 pin are for the PWM output for speed control. (Normal rotation, 65 pin; reverse rotation, 66 pin)

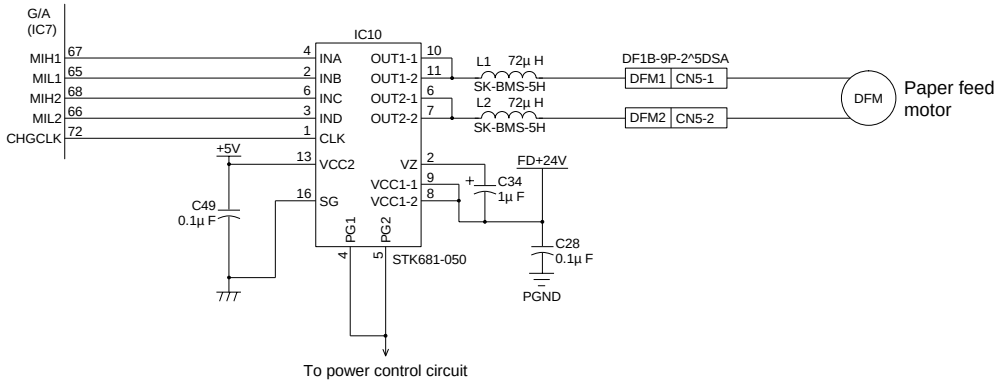
These signals are inputted to IC10.

IC 10 is a hybrid IC including 4 power MOSFET's, and drives the motor by taking the G/A output 65 ~ 68 pins.

The motor operates as follows by the combination of 25 ~ 28 pins.

—	65	66	67	68
Before start	0	0	0	0
CCW	0	PWM	1	0
CW	PWM	0	0	1
Brake	0	0	1	1

In the brake mode, the both terminals of the motor are shorted, generating a great braking torque to stop the motor.



Paper feed motor drive circuit

[d] Transport motor (DTM) drive circuit

This circuit controls the transport motor rotation/stop, the rotating direction, and the motor current. It is composed of the CPU (IC11), the constant current chopper system driver IC (IC8), and the G/A (IC7).

The motor rotating speed and the rotating direction are controlled with the stepping motor drive excitement pattern signals from the CPU (12 ~ 15 pins).

The PWM (20KHz) signal from the G/A (17 pin) is divided and integrated by R113, bR116, and C39 to be converted into a constant voltage, which is inputted to IC8 (9 pin, 11 pin) to set the motor current value.

By varying the PWM signal duty, a desired motor current value can be obtained.

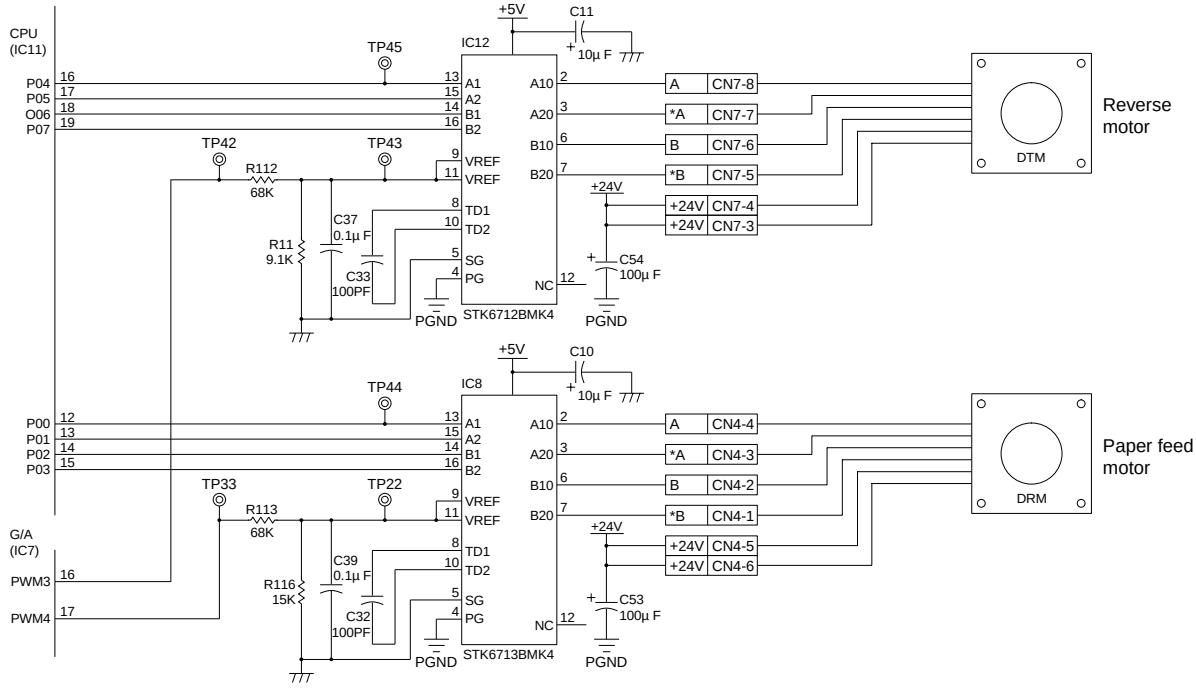
[e] Reverse motor (DRM) drive circuit --- SF-A57 only

This circuit controls the reverse motor rotation/stop, the rotating direction, and the motor current, and is composed of the CPU (IC11), the constant-current chopper system driver IC (IC12), and the G/A (IC7).

The motor rotating speed and the rotating direction are controlled with the stepping motor drive excitement pattern signals from the CPU (16 ~ 19 pins).

The PWM (20KHz) signal from the G/A (16 pin) is divided and integrated by R112, bR114, and C37 to be converted into a constant voltage, which is inputted to IC12 (9 pin, 11 pin) to set the motor current value.

By varying the PWM signal duty, a desired motor current value can be obtained.



Transport motor/reverse motor drive circuit

[f] Paper feed motor (DFM) current limiting circuit

This circuit limits the motor start current to a constant level, and is composed of the resistor for detection of the current value and the voltage comparator.

The negative voltage side of the paper feed motor is connected to the;pickup resistor composed of R97, R98, and R99, which converts the current flowing in the driver circuit into a voltage value.

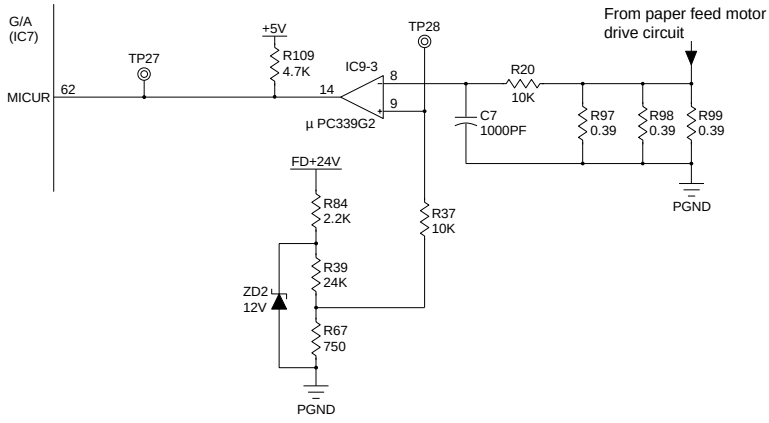
The converted voltage value is compared with the reference voltage by IC9 comparator.

The reference voltage is obtained by dividing the zenor voltage generated from R84 and ZD2 with R39 and R67. It is about 0.3V. When the converted voltage value exceeds the reference voltage (about 2.8A in the current value), IC9 14 pin turns LOW and the signal is inputted to the G/A 62 pin, interrupting +24V supply to the motor. As a result, the current value is limited.

When the converted value falls below the reference value, +24V is supplied again to resume conduction to the motor.

Since the operating current of this circuit is considerably great,

it operates only when starting the motor and does not operate in the normal state.



Paper feed motor current control circuit

[g] Rush current limiting circuit

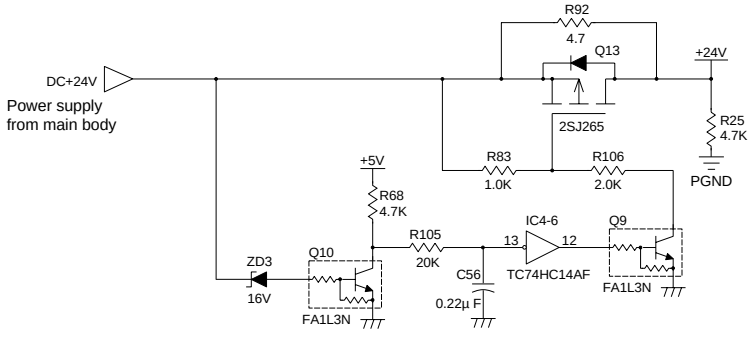
This circuit limits a rush current which flows into the current generation capacitors (C53, C54) in the transport motor (DTM)/reverse motor (DRM) drive circuit, and is composed of the limiting resistor and the FET which allows to flow a constant current.

After closing the ADF open/close switch (AUOD) and the reverse guide open/close switch (TGOD) and until the cathode voltage of ZD3 reaches 16V, the base current is not supplied to Q10, which is kept OFF, driving IC4 3 pin HIGH.

At that time, the base current of Q9 is not supplied to turn off Q9, turning off Q3, flowing a current through R92.

On the other hand, when the cathode voltage of ZD3 exceeds 16V, the base current of Q10 flows to conduct the transistor, turning on Q13. As a result, the current which was flowing through R92 flows through Q13 to cancel current limiting.

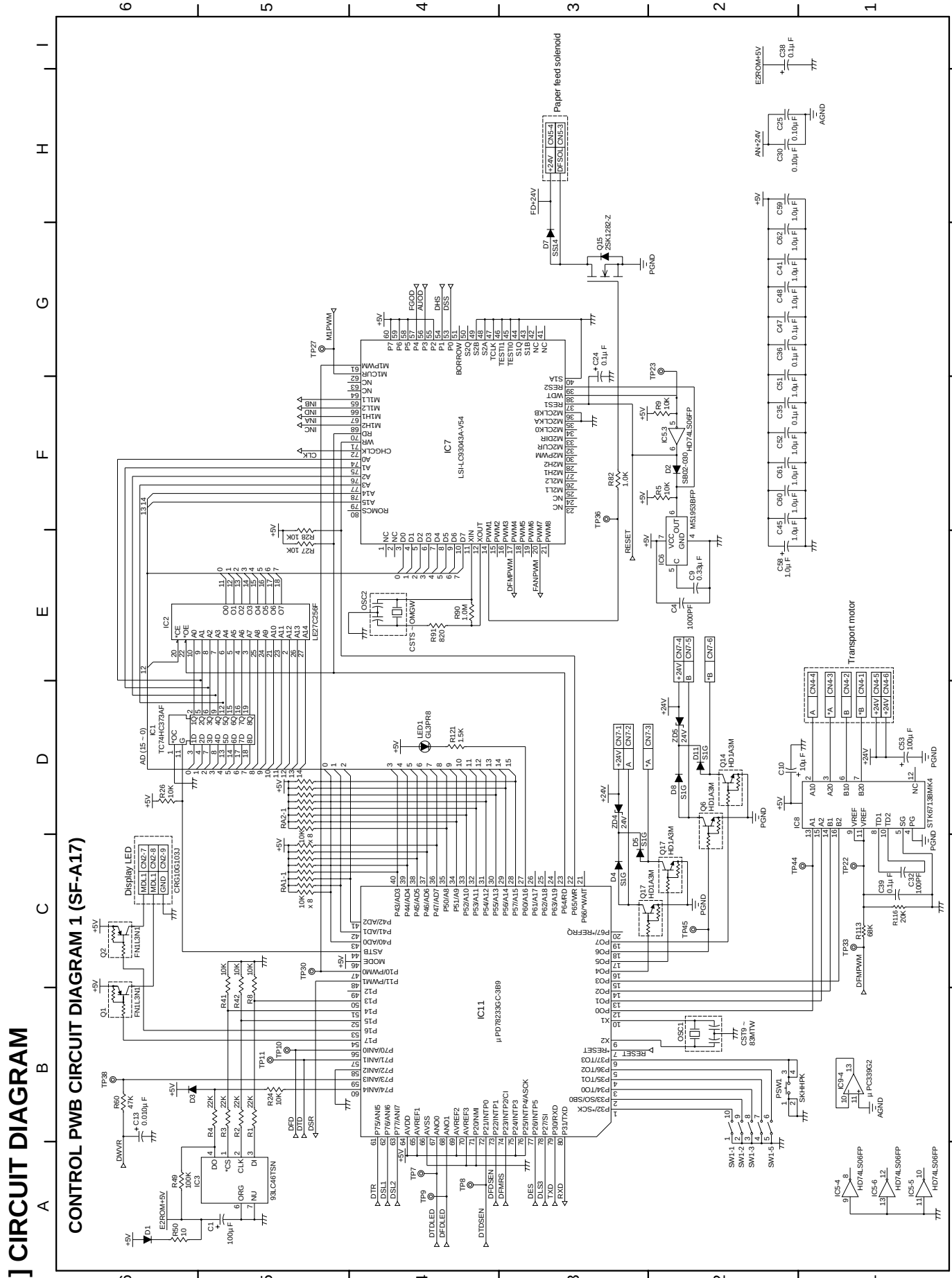
R25 is the discharging resistor which discharges electric charge in C53 and C54 when the ADF open/close switch (AUOD) or the reverse guide open/close switch (TGOD) is opened.



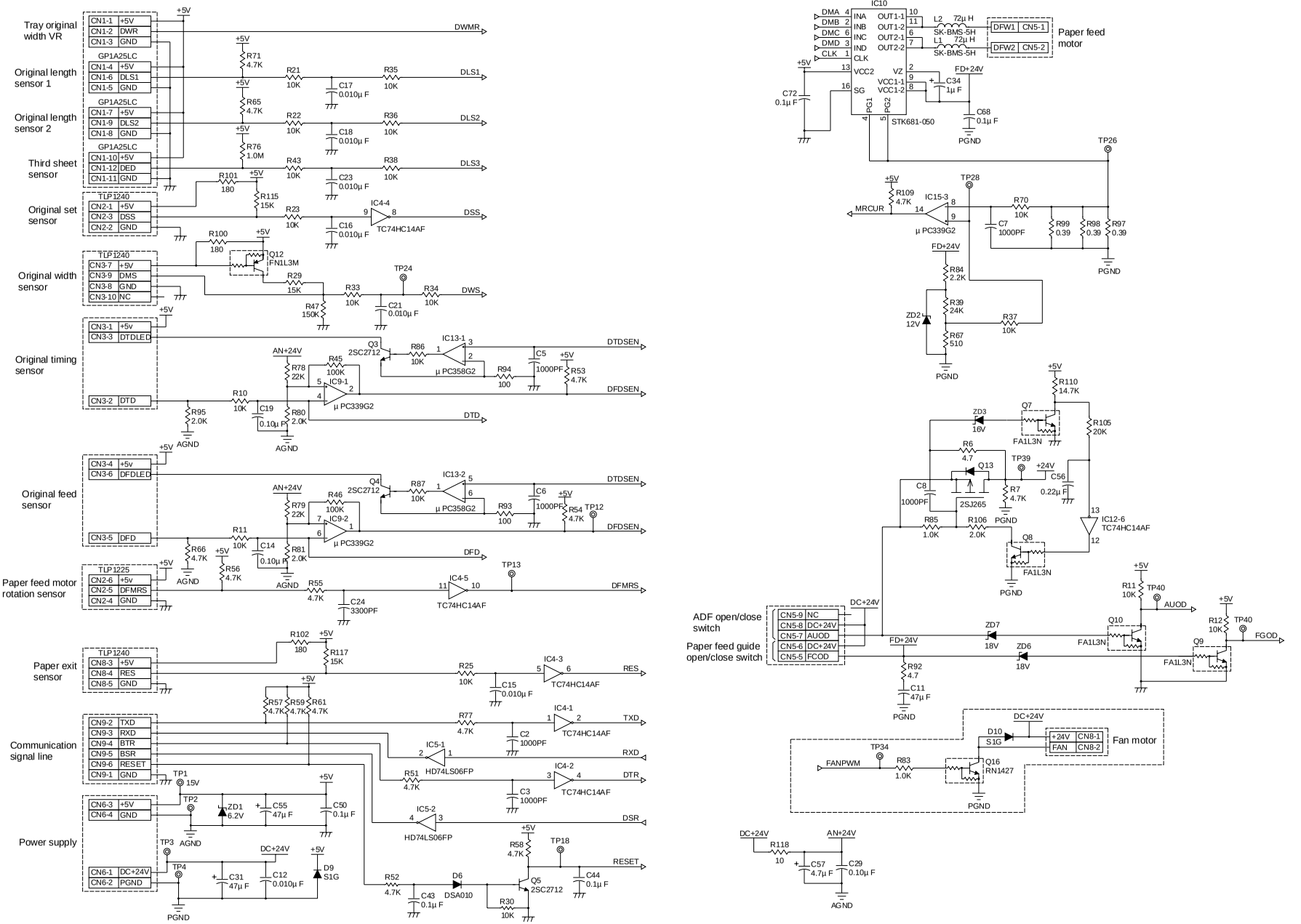
Rush current prevention circuit

[11] CIRCUIT DIAGRAM

CONTROL PWB CIRCUIT DIAGRAM 1 (SF-A17)



CONTROL PWB CIRCUIT DIAGRAM 2 (SF-A17)

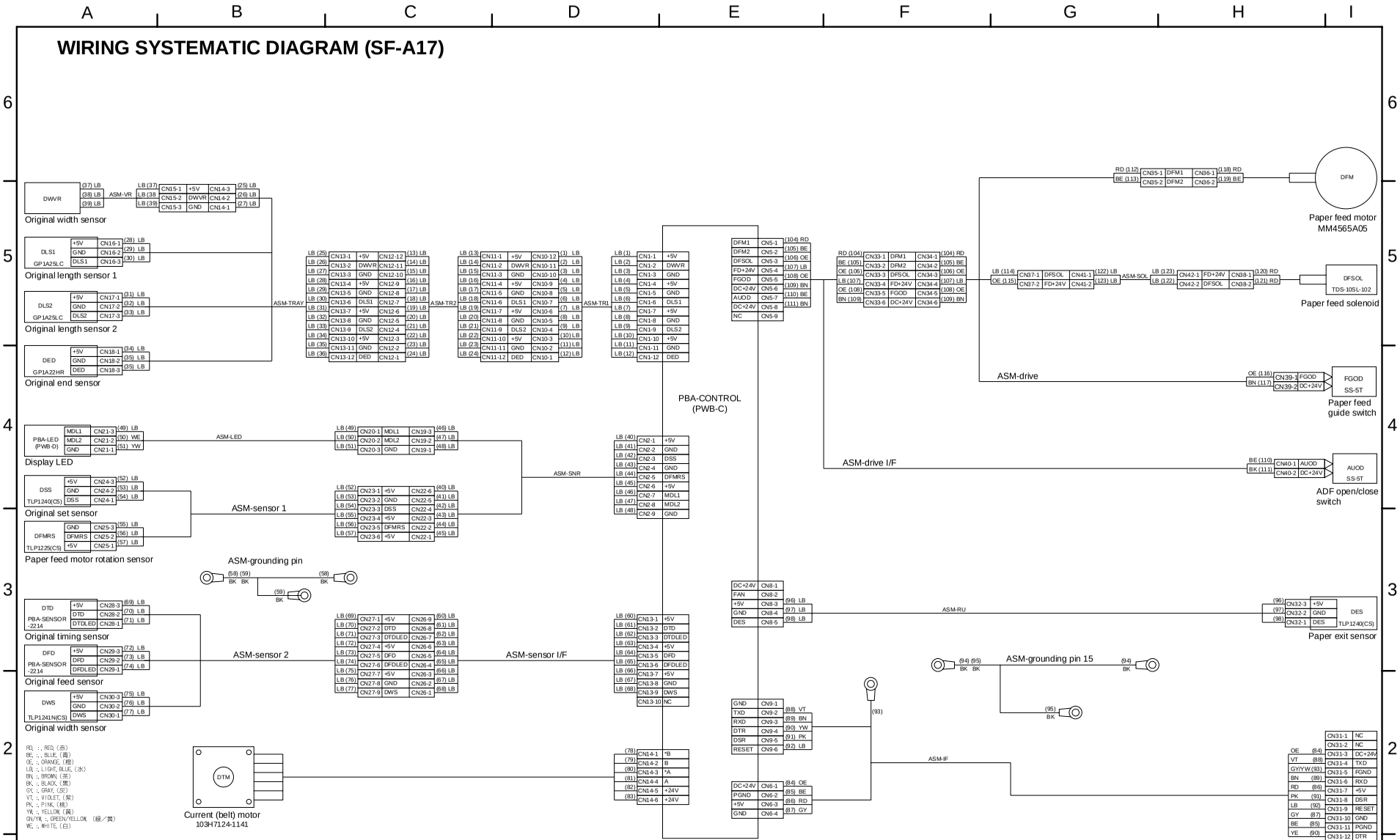


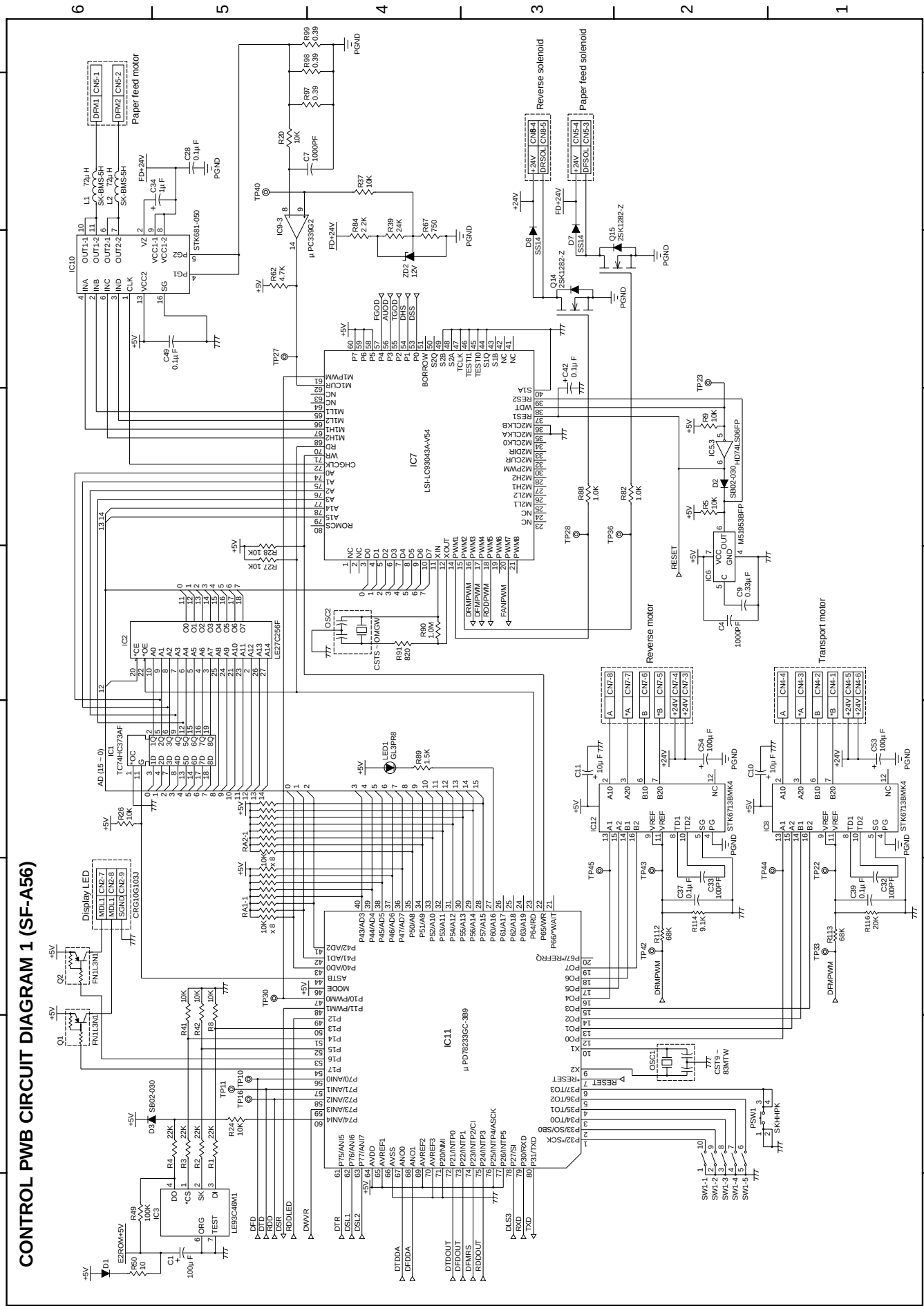
CONTROL PWB (SF-A18)

LED PWB

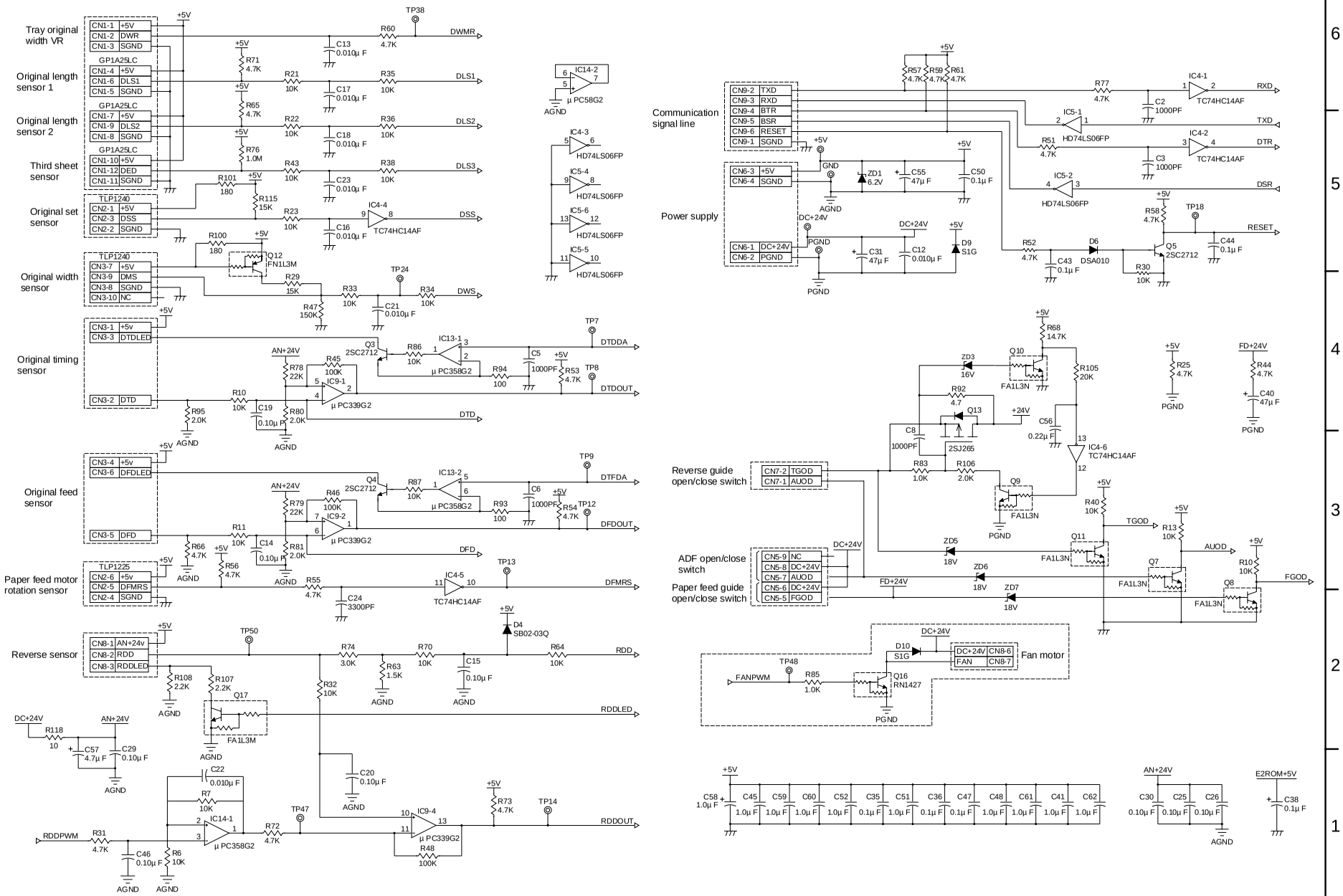
SENSOR PWB

WIRING SYSTEMATIC DIAGRAM (SF-A17)




CONTROL PWB CIRCUIT DIAGRAM 1 (SF-A56)
Paper feed motor
Reverse solenoid
Paper feed solenoid
Reverse motor
Transport motor
Display LED
IC1
TC74HC373AF
IC2
LE27C256F
IC3
LE93C46M1
IC7
LSI-LC93043AV-54
IC10
STK681-050
IC11
μPD78233GC-3B9
IC12
STK671-38MK4
IC8
STK671-38MK4
IC5-3
HD74LS06FP
IC6
M51953BFP
IC9-3
μPC339G2
RESET
E2ROM+5V
DFD
DTD
RDD
DSR
RDDLED
DWVR
DTDDA
DFDDA
DTDOUT
DFDOUT
DFMRS
RDDOUT
DLS3
RXD
TXD
DTR
DSL1
DSL2
DRMPWM
DFMPWM
RDDPWM
FANPWM
FGOD
AUOD
TGOD
DWS
DSS
BORROW
CSTS~OMGW
CSTS~83MTW
PGND
FD+24V
+24V
+5V

CONTROL PWB CIRCUIT DIAGRAM 2 (SF-A56)

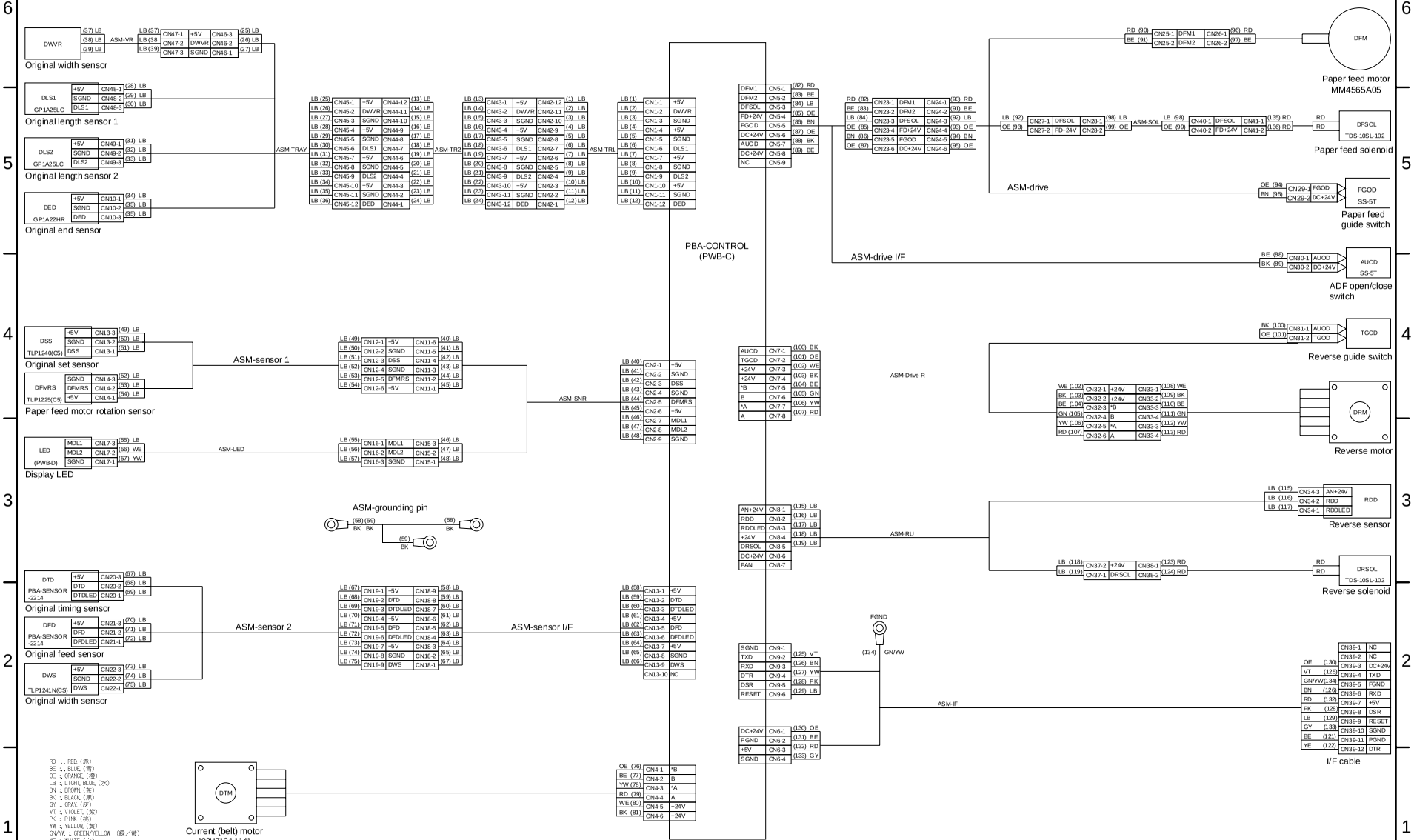


CONTROL PWB (SF-A57)

LED PWB

SENSOR PWB

WIRING SYSTEMATIC DIAGRAM (SF-A56)



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SHARP PARTS GUIDE

MODEL SF-A18 SF-A57

このパーツガイドに掲載されている表示価格ランクは消費税抜きです。

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本書はサービス活動用に作成した資料です。
一部内容が製品の改良・改善等により予告なしにかわることがあります。

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

SF-A18
SF-A57

補修部品のランク付

市場における補修部品の在庫管理が、適正に運営出来る手助けとなることを、目的とします。

Ａランク：取替頻度が比較的多く、在庫を必要とするパーツ。

Ｂランク：取替頻度は比較的少ないが、在庫を必要とするパーツ。

Ｃランク：取替頻度はほとんどないと思われるパーツ。

Ｄランク：取替頻度はほとんどないが新品再生に必要なパーツ。

Ｅランク：ユニットパーツ。サービス効率アップの為、在庫する事を推奨するパーツ。

Ｓランク：消耗品

但し、複写機のパーツについては、同一パーツ名であっても、下記パーツは、使用箇所の相違により、Ａ・Ｂランク分けします。

パーツ名：金属性のギャー、スプロケット、ベアリング、ゴム製のベルト、スプリングクラッチ機構

Ａランク：常に回転しているか、負荷がかかっている箇所に使用され、回転回数が増える事により、変形又は摩耗が生じその性能が発揮出来なくなるパーツ。

Ｂランク：回転部分に使用されているが、摩耗度が比較的少ないパーツ。

DEFINITION

The definition of each Rank is as follows and also noted in the list

A : Parts necessary to be stocked as High usage parts.

B : Parts necessary to be stocked as Standard usage parts.

C : Low usage parts.

D : Parts necessary for refurbish.

E : Unit parts recommended to be stocked for efficient after sales service.
Please note that the lead time for the said parts may be longer than normal parts.

S : Consumable parts.

Please note that the following parts used in Copier under the same description are classified into A or B Rank depending upon the place used.

Example : Gear made of Metal, Sprocket, Bearing, Belt made of Rubber, Spring clutch mechanism.

A Rank : The parts which may be with the revolution or loading.

B Rank : Parts similar to A Rank parts, but are not included in Rank A.

安全性・信頼性確保のため部品は、必ず正規のものをご使用下さい。

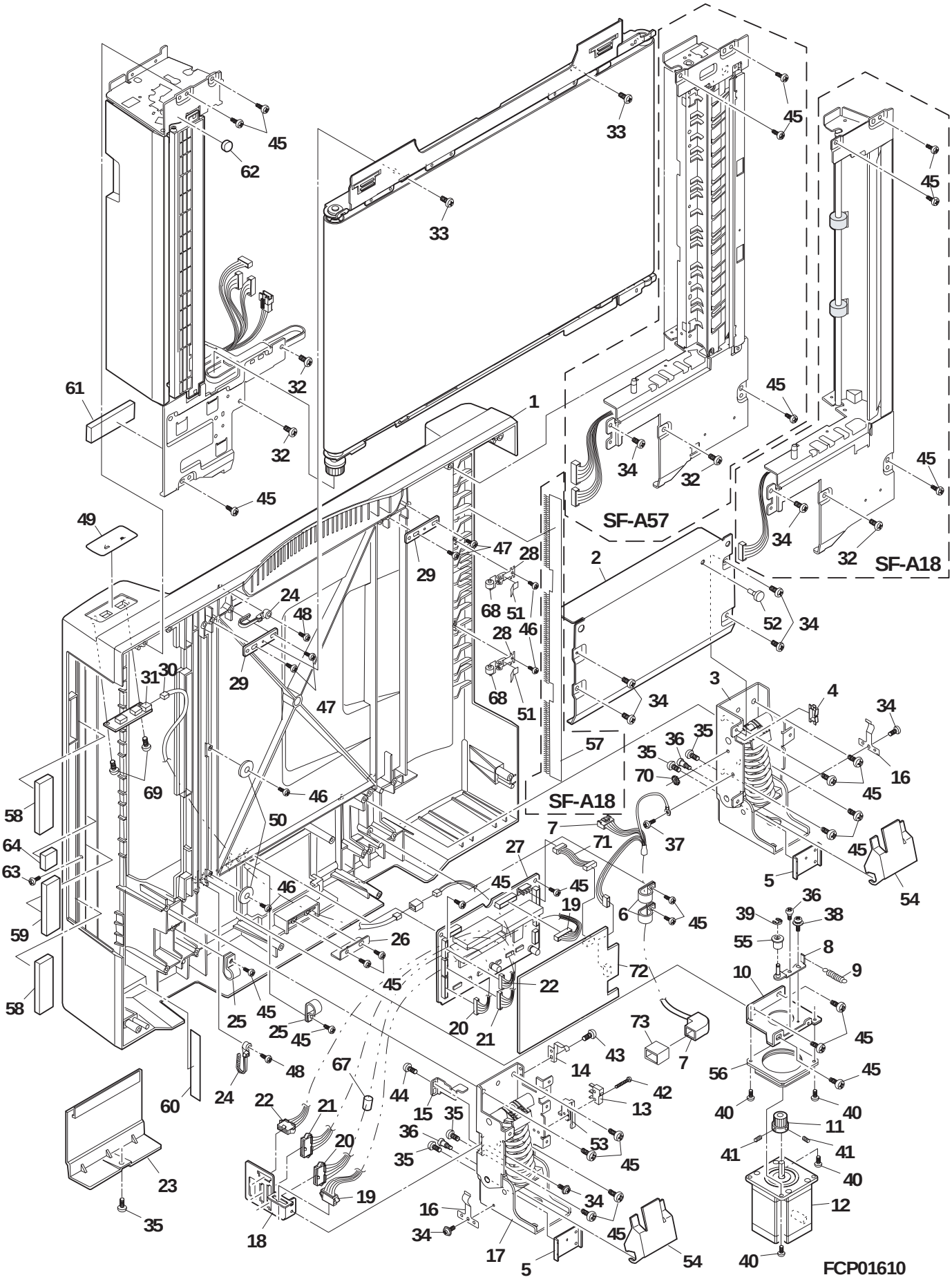
⚠印の部品は、安全上重要な部品です。交換する時は、安全および性能維持のため必ず指定の部品をご使用下さい。

Because parts marked with "⚠" is indispensable for the machine safety maintenance and operation, it must be replaced with the parts specific to the product specification.

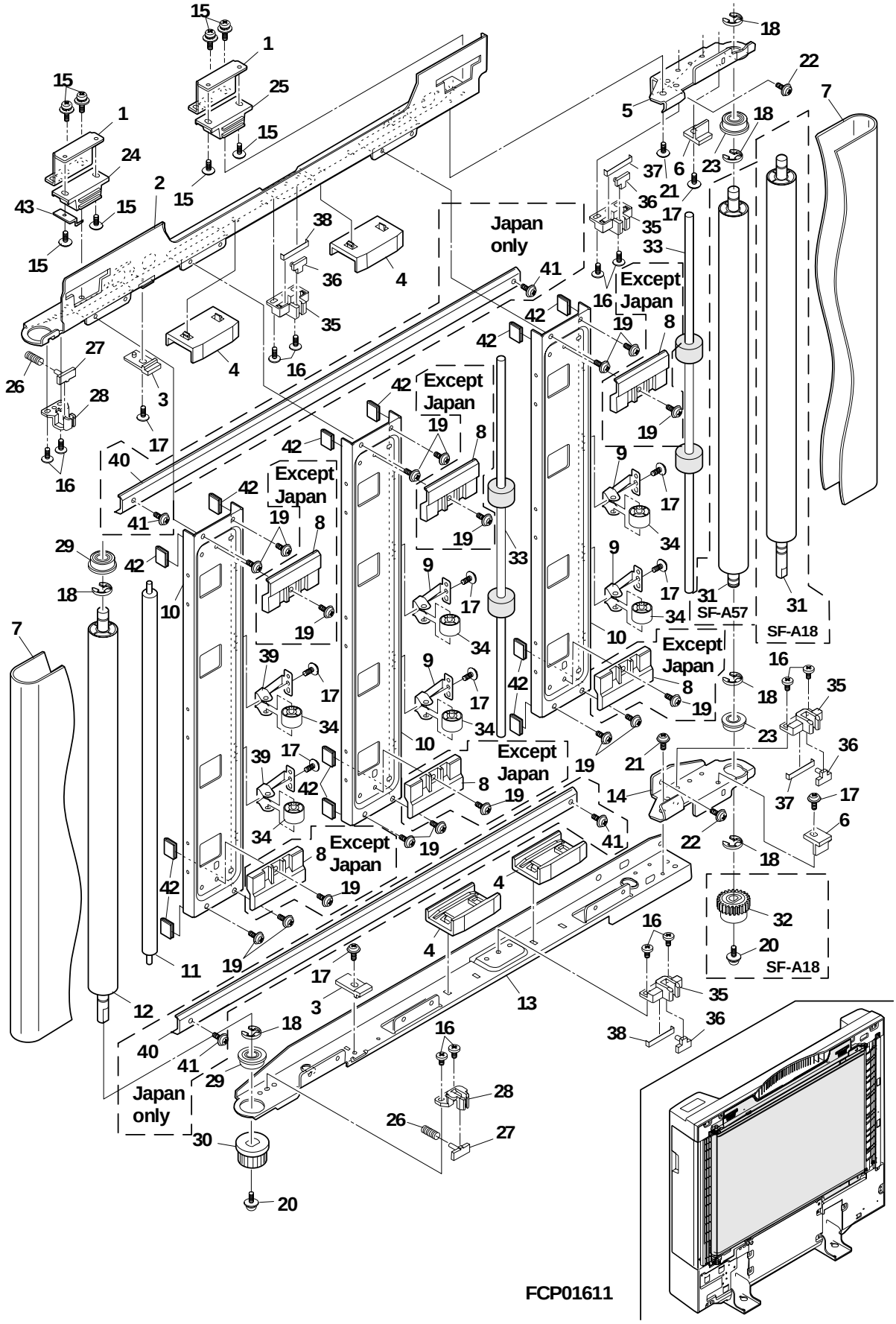
1 外装部(Exteriors)

NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION		
1	0CW2214K114//	BS	MJ		E	DF cover sub ass'y	(SF-A57)	DFｶﾊﾞｰｻﾌﾞｸﾐ
	0CW2215K050//	BS	MW		E	DF cover sub ass'y	(SF-A18)	DFｶﾊﾞｰｻﾌﾞｸﾐ
2	0CW2214P127//	AR	EQ		C	Lower cover		ｼﾀｶﾊﾞｰ
3	0CW2214K022//	BF	GN		E	Hinge R ass'y	(SF-A57)	ﾋﾝｼﾞRｸﾐ
	0CW2215K032//	BF	GN	N	E	Hinge R ass'y	(SF-A18)	ﾋﾝｼﾞRｸﾐ
4	0CWE450000433	AB	DD		C	Edge saddle 1 (EDS-1)		ｴｯｼﾞｻﾄﾞﾙ 1
5	0CW2214P119//	AH	DX		C	Hinge stopper		ﾋﾝｼﾞｽﾄｯﾊﾟｰ
6	0CWE450000070	AB	DJ		C	Wire clamp (NK-5N)		ﾜｲﾔｰｸﾗﾝﾌﾟ
7	0CW2223K210//	BE	GN	N	C	ASM-IF harness		ASM-IFﾊｰﾈｽ
8	0CW2214K054//	AH	DX		C	Tension plate ass'y		ﾃﾝｼｮﾝｲﾀｶｼﾒｸﾐ
9	0CW2214P350//	AD	DJ		C	Belt tension spring		ﾍﾞﾙﾄﾃﾝｼｮﾝｽﾌﾟﾘﾝｸﾞ
10	0CW2214P110//	AL	EB		C	DF motor bracket		DFﾓｰﾀｰﾌﾞﾗｹｯﾄ
11	0CW2214P315//	AR	EQ		C	Pulley (PLY-S2M-24)		ﾌﾟｰﾘｰ
12	0CW2214P400//	BQ	LP		B	Motor (MOT-KH56KM2-017)		ﾓｰﾀｰ
13	0CWE120000870	AM	EG		B	Microswitch (SS-5T)		ﾏｲｸﾛｽｲｯﾁ
14	0CW2214P126//	AG	DX		C	DF earth plate spring		DFｱｰｽｲﾀﾊﾞﾈ
15	0CW2214P117//	AF	DS		C	DF open switch plate		DFｵｰﾌﾟﾝSWｲﾀ
16	0CW2214P513//	AG	DS		C	Hinge earth plate spring		ﾋﾝｼﾞｱｰｽｲﾀﾊﾞﾈ
17	0CW2214K021//	BF	GN		E	Hinge L ass'y	(SF-A57)	ﾋﾝｼﾞLｸﾐ
	0CW2215K031//	BG	GT	N	E	Hinge L ass'y	(SF-A18)	ﾋﾝｼﾞLｸﾐ
18	0CW2214P135//	AE	DJ		C	Interface plate		ﾁｭｳｹｲﾌﾟﾚｰﾄ
19	0CW2214K208//	AS	EQ		C	ASM-drive interface harness		ASM-ﾄﾞﾗｲﾌﾞﾁｭｳｹｲﾊｰﾈｽ
20	0CW2214K200//	AP	EQ		C	ASM-TR1 harness		ASM-TR1ﾊｰﾈｽ
21	0CW2214K203//	AN	EG		C	ASM-SNR harness		ASM-SNRﾊｰﾈｽ
22	0CW2214K206//	AN	EG		C	ASM-sensor interface harness		ASM-ｾﾝｻｰﾁｭｳｹｲﾊｰﾈｽ
23	0CW2214P040//	AM	EG		D	Mentenance cover		ﾒﾝﾃﾅﾝｽｶﾊﾞｰ
24	0CWE450000368	AD	DJ		C	Clamp (T18MR)		ｸﾗﾝﾌﾟ
25	0CWE450000071	AC	DJ		C	Wire clamp (NK-6N)		ﾜｲﾔｰｸﾗﾝﾌﾟ
26	0CW2214P140//	AE	DJ		C	M plate		Mﾌﾟﾚｰﾄ
27	0CW2223K200//	CA	TV	N	E	PBA-Control PWB	(SF-A57)	PBA-ｺﾝﾄﾛｰﾙｷﾊﾞﾝ
	0CW2224K200//	CB	TZ	N	E	PBA-Control PWB	(SF-A18)	PB-Aｺﾝﾄﾛｰﾙｷﾊﾞﾝ
28	0CW2214P136//	AG	DS		C	Delivery collar plate spring		ﾊｲｼｺﾛｲﾀﾊﾞﾈ
29	0CW2214P116//	AE	DJ		C	DF fixing plate		DFｺﾃｨﾌﾟﾚｰﾄ
30	0CW2214K205//	AL	EB		C	ASM-LED harness		ASM-LEDﾊｰﾈｽ
31	0CW2214K223//	AU	EZ		E	PBA-LED PWB		PBA-LEDｷﾊﾞﾝ
32	0CW040060FZTP	AA	DD		C	Screw (4 X 6)		ITﾀｯﾌﾟﾀｲﾄﾈｼﾞ
33	0CW040040FZiT	AA	DD		C	Screw (4 X 4)		ITﾈｼﾞ
34	0CW030060FZTP	AA	DD		C	Screw (3 X 6)		ITﾀｯﾌﾟﾀｲﾄﾈｼﾞ
35	0CW040080FNBi	AA	DD		C	Screw (4 X 8)		ﾊﾞｲﾝﾄﾞﾈｼﾞ
36	0CW2106P091A/	AB	DD		C	Screw		Dﾀﾞﾝﾋﾞｽ1.2
37	0CW040060FNBi	AA	DD		C	Screw (4 X 6)		ﾊﾞｲﾝﾄﾞﾈｼﾞ
38	0CW030060FZWS	AA	DD		C	Screw (3 X 6)		Wｾﾑｽﾈｼﾞ
39	XRESP20-04000	AA	DD		C	E type ring		Eﾘﾝｸﾞ (ER020SKP)
40	0CW040080FZBi	AA	DD		C	Screw (4 X 8)		ﾊﾞｲﾝﾄﾞﾈｼﾞ
41	0CW040060FPWP	AA	DD		C	Screw (4 X 6)		6ｶｸｱﾅﾂｷﾈｼﾞ
42	0CW023100FZNS	AA	DJ		C	Screw (2.3 X 10)		ﾅﾍﾞﾈｼﾞ
43	0CW812530////	AC	DJ	N	C	Screw (3 X 4)		Mﾀｯﾌﾟﾀｲﾄﾈｼﾞ
44	0CW4016P167A/	AA	DJ		C	Screw (SCR030050)		ﾋﾞｽ
45	0CW2185P359//	AB	DJ		C	Screw (4 X 12)		ｳｪｰﾌﾞｽｸﾘｭｰ
46	0CW030080FBBB	AB	DJ		C	Screw (3 X 8)		Bﾀｲﾄﾈｼﾞ
47	0CW2185P358//	AB	DJ	N	C	Screw (4 X 8)		ｳｪｰﾌﾞｽｸﾘｭｰ
48	0CW030100FBBB	AB	DJ		C	Screw (3 X 10)		Bﾀｲﾄﾈｼﾞ
49	0CW2223P318//	AS	EQ	N	D	Disply panel (Japan only)		ﾋｮｳｼﾞﾊﾟﾈﾙ
	0CW2223P319//	AN	EG	N	D	Disply panel (Except Japan)		ﾋｮｳｼﾞﾊﾟﾈﾙ
50	0CW2095P053//	AE	DJ		C	Flange A		ﾌﾗﾝｼﾞA
51	0CW2214P453//	AD	DJ		C	Delivery collar sheet		ﾊｲｼｺﾛﾏｲﾗｰ
52	0CW2166P265//	AF	DS		C	Spacer rubber		ｽﾍﾟｰｻｰｺﾞﾑ
53	0CW2158P003C/	AE	DS		C	SW lever		SWﾚﾊﾞｰ
54	0CW2214P512//	AG	DX		C	Hinge cover		ﾋﾝｼﾞｶﾊﾞｰ
55	0CW2168P010//	AF	DS		C	R tension collar		Rﾃﾝｼｮﾝｶﾗｰ
56	0CW2221P336//	AU	EZ	N	C	Protect rubber		ﾎﾞｳｼﾝｺﾞﾑ
57	0CW2215P337//	AY	FQ		B	H discharge brush	(SF-A18)	Hｼﾞｮﾃﾞﾝﾌﾞﾗｼ
58	0CW2214P496//	AE	DJ		C	A damper sheet W		AｼｮｳｵﾝｼｰﾄW
59	0CW2214P497//	AE	DJ		C	A damper sheet S		AｼｮｳｵﾝｼｰﾄS
60	0CW2214P489//	AH	DX		C	Protect sheet L		ﾎﾞｳｵﾝｼｰﾄL
61	0CW2214P490//	AG	DX		C	A side plate R damper		AｿｸﾊﾞﾝRﾀﾞﾝﾊﾟｰ
62	0CW2158P504//	AK	EB	N	C	Rubber support		ｺﾞﾑｻﾎﾟｰﾄ
63	0CW040060FZWS	AA	DD		C	Screw (4 X 6)		Wｾﾑｽﾈｼﾞ
64	0CW2214P498//	AE	DJ		C	Stopper cushion 4		ｽﾄｯﾊﾟｰｸｯｼｮﾝ4
67	0CWE240000309	AP	EQ	N	B	Core (044S-665802)		ﾌｪﾗｲﾄｺｱ
68	0CW2205P042//	AD	DJ	N	C	Delivery collar		ﾊｲｼｺﾛ
69	0CW2144P409//	AB	DJ	N	C	Screw (3 X 6)		ﾓｰﾙﾄﾞBPﾈｼﾞ
70	0CWKW040FZ///	AA	DD		C	Washer (φ4)		ｷｸｻﾞ
71	0CW2223K213//	AM	EG	N	C	ASM-DC harness		ASM-DCﾊｰﾈｽ
⚠ 72	0CW2223P401//	BY	TF	N	E	Power supply PWB (100V series)		PWS-ﾊﾟﾜｰｻﾌﾟﾗｲ100
⚠	0CW2223P400//	BY	TF	N	E	Power supply PWB (200V series)		PWS-ﾊﾟﾜｰｻﾌﾟﾗｲE200
73	0CW2199P034//	AK	EB	N	C	Protect cover		ﾌﾟﾛﾃｸﾄｶﾊﾞｰ

1 外装部(Exteriors)



2 搬送ﾍﾞﾙﾄ部(Transport belt section)



2 搬送ﾍﾞﾙﾄ部(Transport belt section)

NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION		
1	0CW2214P114//	AK	DX		C	MG catch holder		MGｷｬｯﾁｳｹ
2	0CW2214P111//	AS	EQ		C	DF side plate F		DFｿｸﾊﾟﾝF
3	0CW2214P043//	AD	DJ		C	DF spacer L		DFｽﾍﾟｰｻｰL
4	0CW2214P044//	AF	DS		C	Belt guide		ﾍﾞﾙﾄｶﾞｲﾄﾞ
5	0CW2214P138//	AH	DX		C	Belt tension plate F		ﾍﾞﾙﾄﾃﾝｼｮﾝﾌﾟﾚｰﾄF
6	0CW2214P042//	AD	DJ		C	DF spacer R		DFｽﾍﾟｰｻｰR
7	0CW2214P353//	BR	LX		B	DF belt (957-328)		DFﾍﾞﾙﾄ
8	0CW2214P041//	AF	DS		C	Belt fixing plate (Except Japan)		ﾍﾞﾙﾄｵｻｴ
9	0CW2214P141//	AH	DX		C	Fixer collar plate spring		ｵｵｴｺﾛｲﾀﾊﾞﾈ
10	0CW2214P118//	AM	EG		C	Fixer collar stay S		ｵｻｴｺﾛｽﾃｲS
11	0CW2214P462//	AZ	FQ		C	Roller SHP		ｵﾄｼﾛｰﾗｰSHP
12	0CW2214P322//	BB	GD		C	Belt roller L		ﾍﾞﾙﾄﾛｰﾗｰL
13	0CW2214P112//	AW	FG		C	DF side plate R		DFｿｸﾊﾟﾝR
14	0CW2214P139//	AH	DX		C	Belt tension plate R		ﾍﾞﾙﾄﾃﾝｼｮﾝﾌﾟﾚｰﾄR
15	0CW030060FZSW	AA	DD		C	Screw (3 X 6)		Wｾﾑｽﾈｼﾞ
16	0CW4016P167A/	AA	DJ		C	Screw (SCR030050)		ﾋﾞｽ
17	0CW030060FZTP	AA	DD		C	Screw (3 X 6)		ITﾀｯﾌﾟﾀｲﾄﾈｼﾞ
18	XRESP70-08000	AA	DD		C	E type ring (7mm)		E ﾘﾝｸﾞ (ER070SKP)
19	0CW030060FNTP	AB	DJ		C	Screw (3 X 6)(Japan only)		ITﾀｯﾌﾟﾀｲﾄﾈｼﾞ
	0CW030080FZTP	AA	DD		C	Screw (3 X 8)(Except Japan)		ITﾀｯﾌﾟﾀｲﾄﾈｼﾞ
20	0CW030080FZWS	AA	DD		C	Screw (3 X 8)		W ｾﾑｽﾈｼﾞ
21	0CW2078P023B/	AC	DJ		C	Screw (M3)		M3ﾀﾞﾝﾋﾞｽ 1.4
22	0CW030060FZWS	AA	DD		C	Screw (3 X 6)		W ｾﾑｽﾈｼﾞ
23	0CW650590////	AU	EZ	N	B	Bearing (BRG-LF-1280ZZ)		ﾍﾞｱﾘﾝｸﾞ
24	0CW2214P393//	AG	DX		B	Magnet catch 13N		ﾏｸﾞﾈｯﾄｷｬｯﾁ13N
25	0CW2214P393//	AG	DX		B	Magnet catch 13N	(SF-A57)	ﾏｸﾞﾈｯﾄｷｬｯﾁ13N
	0CW2215P336//	AF	DS		B	Magnet catch 20N	(SF-A18)	ﾏｸﾞﾈｯﾄｷｬｯﾁ20N
26	0CW2205P360//	AD	DJ		C	Roller spring		ｵﾄｼﾛｰﾗｰﾊﾞﾈ
27	0CW2164P142A/	AE	DS		C	Belt roller spring holder		ﾍﾞﾙﾄﾛｰﾗｰﾊﾞﾈｳｹ
28	0CW2214P051//	AD	DJ		C	Holder S		ｵﾄｼﾎﾙﾀﾞｰS
29	0CW2160P344A/	AN	EQ		B	Bearing (BRG8-16)		ﾍﾞｱﾘﾝｸﾞ
30	0CW2185P023//	AE	DS		B	A belt pulley 30		Aﾍﾞﾙﾄﾌﾟｰﾘｰ30
31	0CW2214P321//	BB	GD		C	Belt roller R	(SF-A57)	ﾍﾞﾙﾄﾛｰﾗｰR
	0CW2215P300//	BB	GD		C	Belt roller R	(SF-A18)	ﾍﾞﾙﾄﾛｰﾗｰR
32	0CW2215P005//	AF	DS		C	Gear (GER-0.8-22)	(SF-A18)	ｷﾞﾔｰ
33	0CW2205P351//	AU	EZ		C	Belt fixing roller		ﾍﾞﾙﾄｵｻｴﾛｰﾗｰ
34	0CW2158P035A/	AD	DJ		C	Fixing collar		ｵｻｴｺﾛ
35	0CW2205P037//	AE	DJ		C	Fixing holder		ｵｻｴﾎﾙﾀﾞｰ
36	0CW2205P025//	AD	DJ		C	Pressure spacer		ｱﾂｾﾂｽﾍﾟｰｻｰ
37	0CW2205P147//	AC	DJ		C	Fixing roller spring	(SF-A57)	ｵｻｴﾛｰﾗｰﾊﾞﾈ
	0CW2215P106//	AD	DJ		C	Fixing roller spring S	(SF-A18)	ｵｻｴﾛｰﾗｰﾊﾞﾈS
38	0CW2205P147//	AC	DJ		C	Fixing roller spring		ｵｻｴﾛｰﾗｰﾊﾞﾈ
39	0CW2214P157//	AK	DX		C	Fixing collar plate spring L		ｵｻｴｺﾛｲﾀﾊﾞﾈL
40	0CW2214P520//	AU	EZ		C	Fixing holder (Japan only)		ｵｻｴﾎﾙﾀﾞｰ
41	0CW030060FZiT	AA	DD		C	Screw (3 X 6)(Japan only)		ITﾈｼﾞ
42	0CWZ0030WE004	AC	DJ	N	C	Ege saddle (CE-012S)		ｴｯｼﾞｻﾄﾞﾙ
43	0CW2214P149//	AG	DX	N	C	MG earth plate		MGｱｰｽｲﾀﾊﾞﾈ

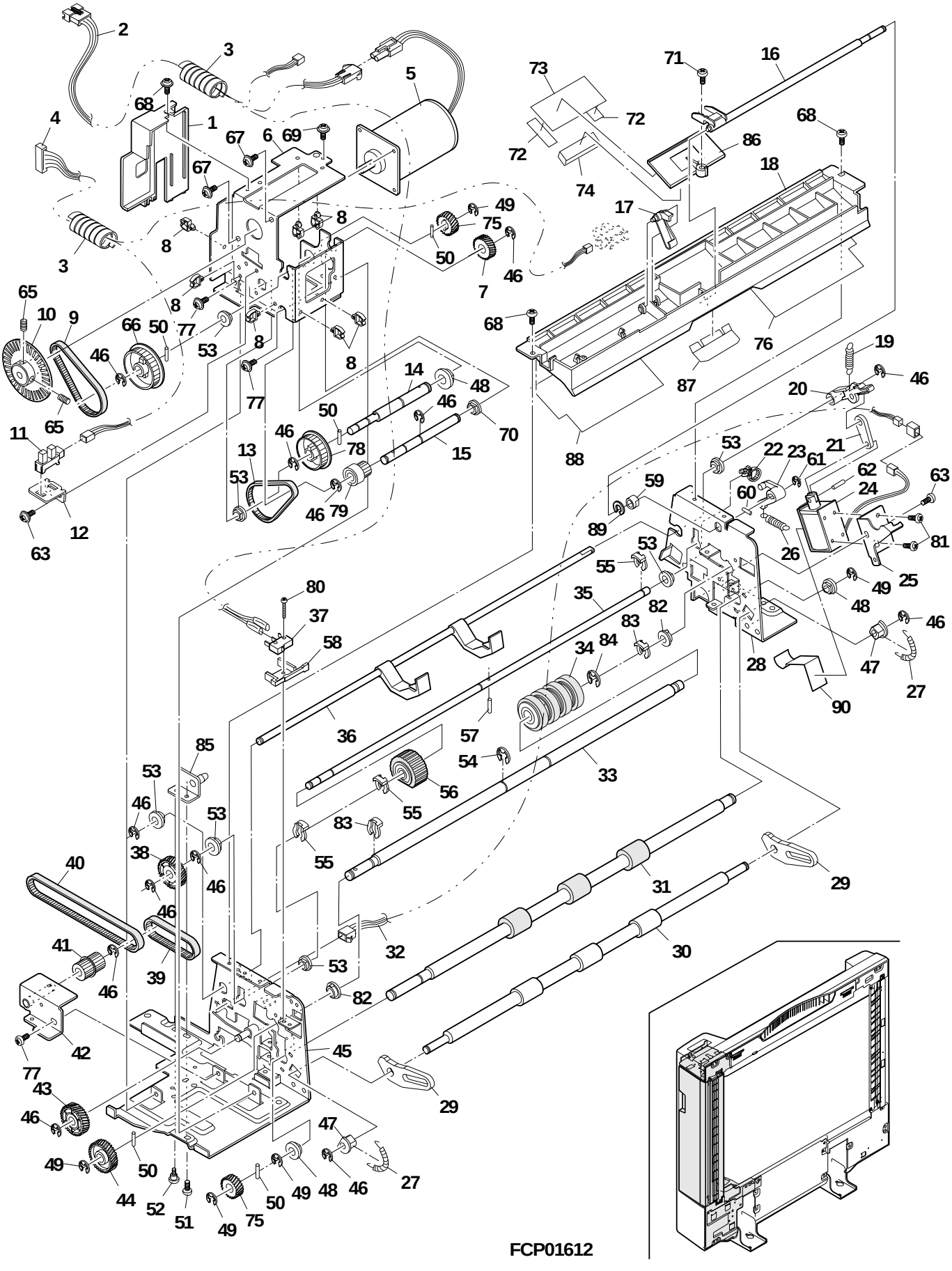
3 給紙搬送部1(Paper feeding transport section 1)

NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION	
1	0CW2214P037//	AH	DX		C	Harness guide	ﾊｰﾈｽｶﾞｲﾄﾞ
2	0CW2214K209//	AR	EQ		C	ASM-drive F harness	ASM-ﾄﾞﾗｲﾌﾞFﾊｰﾈｽ
3	0CW2214P405//	AD	DJ		C	SP tube 1	SPﾁｭｰﾌﾞ1
4	0CW2214K204//	AH	DX		C	ASM-sensor 1 harness	ASM-ｾﾝｻｰ1 ﾊｰﾈｽ
5	0CWY000730///	BQ	LP	N	B	Motor (MM4565105)	ﾒｲﾝﾓｰﾀｰ
6	0CW2214P108//	AT	EZ		C	PF motor bracket	ｷｭｳｼﾓｰﾀｰﾌﾞﾗｹｯﾄ
7	0CW2214P316//	AS	EQ		C	Gear (GER-0.75-24H-0W)	ｷﾞﾔｰ
8	0CWE450000897	AC	DJ		C	Clamp (UAMS-05SN-W)	ｸﾗﾝﾌﾟ
9	0CW2214P341//	AP	EQ		C	Belt (BLT-S2M166-6)	ﾍﾞﾙﾄ
10	0CW2214P340//	AV	FG		C	Clock pulley (PLY-S2M-20)	ｸﾛｯｸﾌﾟｰﾘｰ
11	0CWE314000531	AN	EG		B	Photo interrupter (TLP1225(C5))	ﾌｫﾄｲﾝﾀﾗﾌﾞﾀｰ
12	0CW2214P109//	AE	DS		C	PF sensor bracket	ｷｭｳｼﾝｻｰﾌﾞﾗｹｯﾄ
13	0CW2214P319//	AP	EQ		B	Belt (BLT-S2M138-6)	ﾍﾞﾙﾄ
14	0CW2214P206//	AP	EQ		C	Shaft 2	ｼｬﾌﾄ2
15	0CW2214P205//	AK	EB		C	Shaft 1	ｼｬﾌﾄ1
16	0CW2214P019//	AP	EQ		C	Weight lever shaft	ｳｪｲﾄﾚﾊﾞｰｼﾞｸ
17	0CW2214P020//	AE	DJ		C	Lever	ｴﾝﾌﾟﾃｨｰﾚﾊﾞｰ
18	0CW2214P007//	AT	EZ		C	Guide	ｻﾊﾞｷｶﾞｲﾄﾞ
19	0CW2214P314//	AD	DJ		C	Shutter spring	ｼｬｯﾀｰﾊﾞﾈ

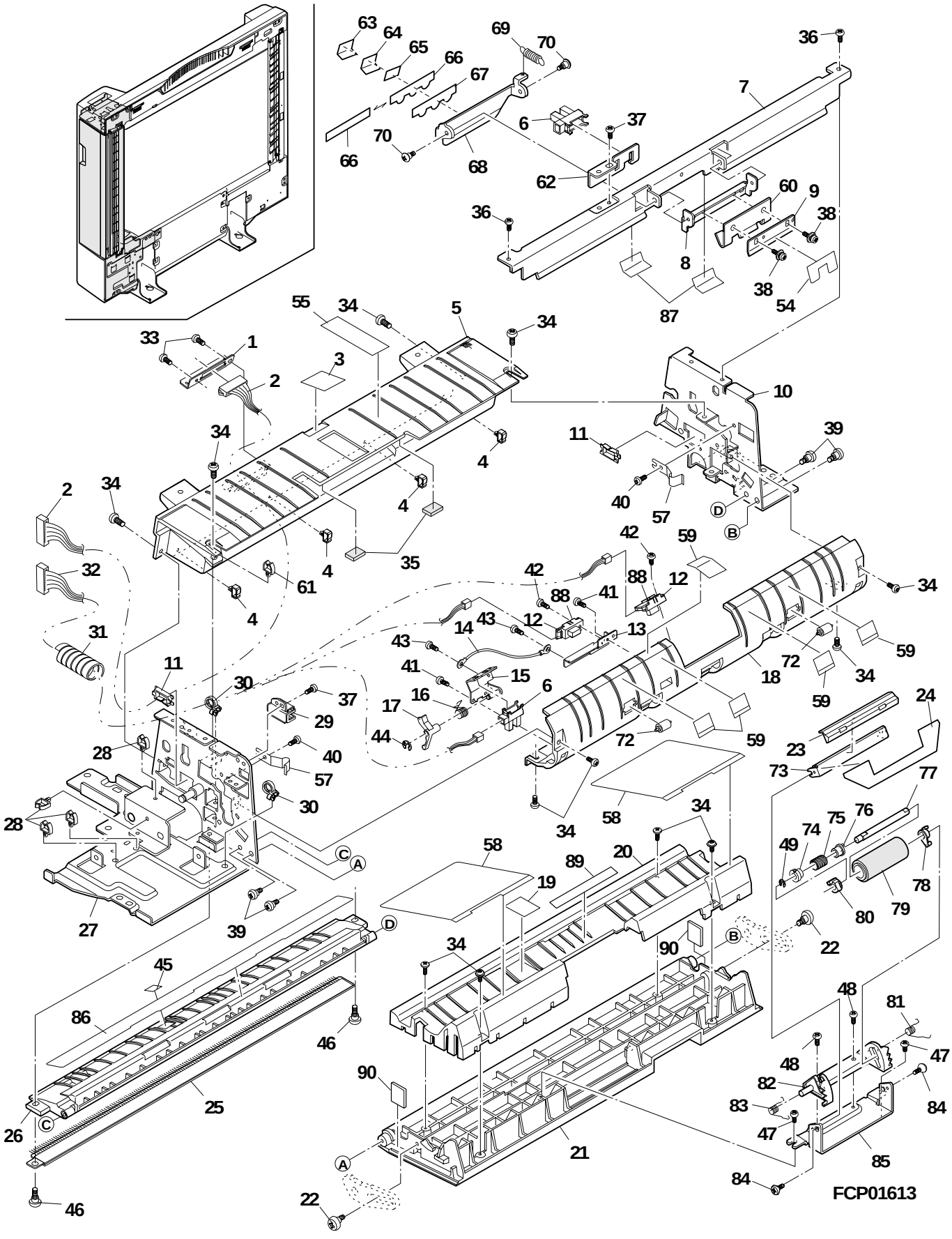
3 給紙搬送部1(Paper feeding transport section 1)

NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION	
20	0CW2214P023//	AE	DJ		C	Lever	ﾜﾆﾚﾊﾞｰ
21	0CW2214P036//	AE	DS		C	Shutter link	ｼｬｯﾀｰﾘﾝｸ
22	0CWE450000871	AB	DJ		C	Snap band (SG-110)	ｽﾅｯﾌﾟﾊﾞﾝﾄﾞ
23	0CW2214P021//	AE	DJ		C	Weight lever	ｳｪｲﾄﾚﾊﾞｰ
24	0CW2214P403//	AY	FQ		B	Solenoid (SOL-TDS-10SL-102)	ｿﾚﾉｲﾄﾞ
25	0CW2214P101//	AE	DJ		C	S solenoid bracket	Sｿﾚﾉｲﾄﾞﾌﾞﾗｹｯﾄ
26	0CW2214P313//	AD	DJ		C	Weight spring	ｳｪｲﾄﾊﾞﾈ
27	0CW2214P312//	AD	DJ		C	Resist spring	ﾚｼﾞﾊﾞﾈ
28	0CW2214P104//	AR	EQ		C	A side plate F	AｿｸﾊﾞﾝF
29	0CW2214P022//	AE	DJ		C	Resist link	ﾚｼﾞﾘﾝｸ
30	0CW2214P302//	AX	FG		C	Resist pinch roller	ﾚｼﾞﾋﾟﾝﾁﾛｰﾗｰ
31	0CW2214P301//	BB	GD		C	Resist roller	ﾚｼﾞｽﾄﾛｰﾗｰ
32	0CW2214K216//	AH	DX		C	ASM-SOL harness	ASM-SOLﾊｰﾈｽ
33	0CW2214P200//	AZ	FQ		C	Shaft	ｻﾊﾞｷｼﾞｸ
34	0CW2214P339//	BA	FX		C	Roller	ｸｼﾊﾞﾛｰﾗｰ
35	0CW2214P201//	AV	FG		C	Pick up shaft	ﾋﾟｯｸｱｯﾌﾟｼｬﾌﾄ
36	0CW2214P300D/	AU	FG		C	Shutter	ｼｬｯﾀｰ
37	0CWE120000870	AM	EG		B	Microswitch (SS-5T)	ﾏｲｸﾛｽｲｯﾁ
38	0CW2214P317//	AS	EQ		C	Gear (GER-0.75-32H-0W)	ｷﾞﾔｰ
39	0CW2214P318//	AR	EQ		B	Belt (BLT-B100-S2M120)	ﾍﾞﾙﾄ
40	0CW2214P320//	AQ	EQ		B	Belt (BLT-B60-S2M248)	ﾍﾞﾙﾄ
41	0CW2214P031//	AF	DS		C	Pulley (PLY-S2M-24)	ﾌﾟｰﾘｰ
42	0CW2214K033//	AL	EB		C	Idler bracket ass'y	ｱｲﾄﾞﾗﾌﾞﾗｹｯﾄｶｼﾒｸﾐ
43	0CW2214P342//	AS	EQ		C	Gear (GER-0.75-H-0W)	ｷﾞﾔｰ
44	0CW2214P032//	AF	DS		C	Gear (GER-0.75-32H)	ｷﾞﾔｰ
45	0CW2214K027//	AX	FG		C	A side plate R ass'y	AｿｸﾊﾞﾝRｶｼﾒｸﾐ
46	XRESP50-06000	AA	DD		C	E type ring (5mm)	E ﾘﾝｸﾞ(ER050SKP)
47	0CW690380////	AG	DS	N	B	Bearing MF	ｼﾞｸｳｹ MF
48	0CW319300////	AD	DJ		C	Bearing (8MM)	ｼﾞｸｳｹ 8MM
49	XRESP70-08000	AA	DD		C	E type ring (7mm)	E ﾘﾝｸﾞ(ER070SKP)
50	0CW020120SCH/	AA	DD		C	Pin (φ2 X 12)	ﾍｲｺｳﾋﾟﾝ
51	0CW1001P441//	AG	DX	N	C	Bolt (3 X 6)(BOT-SW-HW CAP)	ﾎﾞﾙﾄ
52	0CW2078P023B/	AC	DJ		C	Screw (M3)	M3ﾀﾞﾝﾋﾞｽ 1.4
53	0CW2158P521//	AE	DJ		C	Bearing 6	ｼﾞｸｳｹ 6
54	XRESP80-09000	AA	DD		C	E type ring	E ﾘﾝｸﾞ(ER080SKP)
55	0CW2166P034B/	AC	DJ		C	Crip (CL1P-5)	ｸﾘｯﾌﾟ
56	0CW2214P471//	AQ	EQ		C	Semicircular roller SHP	ﾊﾝｹﾞﾂﾛｰﾗｰ SHP
57	0CW020140SCH/	AB	DD		C	Pin (φ2 X 14)	ﾍｲｺｳﾋﾟﾝ
58	0CW2158P003C/	AE	DS		C	Switch lever	SWﾚﾊﾞｰ
59	0CW338430////	AD	DJ	N	B	Bearing 4	ｼﾞｸｳｹ 4
60	0CW020060SCH/	AB	DD		C	Pin (φ2 X 6)	ﾍｲｺｳﾋﾟﾝ
61	XRESP30-05000	AA	DD		C	E type ring (3mm)	E ﾘﾝｸﾞ(ER030SKP)
62	0CW030100FPA/	AA	DD		C	Spring pin (φ3 X 10)	ｽﾌﾟﾘﾝｸﾞﾋﾟﾝ
63	0CW030060FZTP	AA	DD		C	Screw (3 X 6)	ITﾀｯﾌﾟﾀｲﾄﾈｼﾞ
65	0CW030080FPWP	AB	DJ		C	Screw (3 X 8)	6ｶｸｱﾅﾂｷﾄﾒﾈｼﾞ
66	0CW2198P003//	AH	DX		C	Pulley (PLY-S2M-56)	ﾌﾟｰﾘｰ
67	0CW030060FZiT	AA	DD		C	Screw (3 X 6)	ITﾈｼﾞ
68	0CW4016P167A/	AA	DJ		C	Screw (SCR030050)	ﾋﾞｽ
69	0CW2158P377//	AB	DJ		C	Screw (3 X 4)	ﾋﾗﾈｼﾞ
70	0CW338420////	AC	DJ		B	Bearing 6	ｼﾞｸｳｹ 6
71	0CW030080FZWS	AA	DD		C	Screw (3 X 8)	Wｾﾑｽﾈｼﾞ
72	0CW2214P469//	AE	DJ		C	PWR sheet 2	PWRﾏｲﾗｰ2
73	0CW2214P456//	AG	DX		C	PWR sheet	PWRﾏｲﾗｰ
74	0CW2214P457//	AD	DJ		C	PWR cushion	PWRｸｯｼｮﾝ
75	0CW2168P029//	AF	DS		C	Gear (GER-0.75-21H-L)	ｷﾞﾔｰ
76	0CW2214P491//	AH	DX		C	Curl sheet F-K (Japan only)	ｶｰﾙﾏｲﾗｰF-K
	0CW2214P345//	AH	DX		C	Curl sheet F (Except Japan)	ｶｰﾙﾏｲﾗｰF
77	0CW040060FZBP	AB	DJ		C	Screw (4 X 6)	ﾊﾞｲﾝﾄﾞﾀｯﾌﾟﾀｲﾄﾈｼﾞ
78	0CW2168P030//	AG	DX		C	Pulley (PLY-S2M-50)	ﾌﾟｰﾘｰ
79	0CW2142P037//	AS	EQ		C	Pulley (PLY18 O/W)	ﾌﾟｰﾘｰ
80	0CW023120FBWS	AB	DJ	N	C	Screw (2.3 X 12)	Wｾﾑｽﾈｼﾞ
81	0CW030030FZiT	AB	DJ		C	Screw (3 X 3)	ITﾈｼﾞ
82	0CW2078P652//	AE	DS		C	Bearing 8	ｼﾞｸｳｹ8
83	0CW2088P034//	AK	EB		C	Stopper 6	ｽﾅｯﾌﾟ6
84	0CW2095P310//	AD	DJ		C	Stopper 8	ｼﾞｸﾄﾞﾒ8
85	0CW2214K101//	AL	EB		C	DF support plate ass'y	DFｼｼﾞｲﾀｶｼﾒｸﾐ
86	0CW2160P018//	AK	DX		C	Weight	ｳｴｲﾄ
87	0CW2214P375//	AG	DS		C	Weight sheet	ｳｴｲﾄﾏｲﾗｰ
88	0CW2214P492//	AH	DX		C	Curl sheet R-K (Japan only)	ｶｰﾙﾏｲﾗｰR-K
	0CW2214P346//	AH	DX		C	Curl sheet R (Except Japan)	ｶｰﾙﾏｲﾗｰR
89	0CW2129P188//	AD	DJ	N	C	Crip (CLIP 3)	KL-ｸﾘｯﾌﾟ
90	0CW2223P101//	AD	DJ	N	C	A earth plate	Aｱｰｽｲﾀﾊﾞﾈ

3 給紙搬送部1(Paper feeding transport section 1)



4 給紙搬送部2 (Paper feeding transport section 2)



4 給紙搬送部2 (Paper feeding transport section 2)

NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION	
1	0CW2214P102//	AE	DJ		C	Tray connector bracket	ﾄﾚｲｺﾈｸﾀﾌﾞﾗｹｯﾄ
2	0CW2214K201//	AP	EQ		C	ASM-TR2 harness	ASM-TR2ﾊｰﾈｽ
3	0CW2214P343//	AE	DJ		C	Pick up sheet	ﾋﾟｯｸｱｯﾌﾟﾏｲﾗｰ
4	0CWE450000896	AC	DJ		C	Clamp (UAMS-02WH-2)	ｸﾗﾝﾌﾟ
5	0CW2214P006//	AY	FQ		C	A tray guide	Aﾄﾚｲｶﾞｲﾄﾞ
6	0CWE314000528	AL	EB		B	Photo interrupter (TLP1240(C5))	ﾌｫﾄｲﾝﾀﾗﾌﾟﾀｰ
7	0CW2214P132//	AM	EG		C	Stay	ｻﾊﾞｷｽﾃｲ
8	0CW2214P131//	AG	DX		C	Bracket	ｻﾊﾞｷｲﾀﾌﾞﾗｹｯﾄ
9	0CW2214P155//	AG	DX		C	Plate 2	ﾏｴｻﾊﾞｷｲﾀ 2
10	0CW2214P104//	AR	EQ		C	A side plate F	AｿｸﾊﾞﾝF
11	0CWE450000433	AB	DD		C	Edge saddle 1 (EDS-1)	ｴｯｼﾞｻﾄﾞﾙ 1
12	0CW2214K224//	AS	EQ		E	PBA-sensor PWB	PBA-ｾﾝｻｰｷﾊﾞﾝ
13	0CW2214P134//	AF	DS		C	Resist sensor bracket	ﾚｼﾞｾﾝｻｰﾌﾞﾗｹｯﾄ
14	0CW2214K214//	AG	DX		C	ASM-earth wire W	ASM-ｱｰｽｾﾝW
15	0CW2214K032//	AK	EB		C	Sensor bracket ass'y	ﾊﾊﾞｾﾝｻｰﾌﾞﾗｹｯﾄｶｼﾒｸﾐ
16	0CW2214P311//	AF	DS		C	Sensor spring	ﾊﾊﾞｾﾝｻｰﾊﾞﾈ
17	0CW2214P030//	AE	DJ		C	Sensor lever	ﾊﾊﾞｾﾝｻｰﾚﾊﾞｰ
18	0CW2214P009//	AX	FG		C	U-turn guide	Uﾀｰﾝｶﾞｲﾄﾞ
19	0CW2214P307//	AD	DJ		C	Seal	ﾐﾗｰｼｰﾙﾚｼﾞ
20	0CW2214P034//	AU	FG		C	Resist guide	ﾚｼﾞｶﾞｲﾄﾞ
21	0CW2214P008//	BA	FX		C	Paper feeding cover	ｷｭｳｼｶﾊﾞｰ
22	0CW2214P303//	AD	DJ		C	Screw	M3ﾀﾞﾝﾋﾞｽ3.3
23	0CW2214P035C/	AF	DS		C	Fixing plate	ｻﾊﾞｷｵｻｴ
24	0CW2214P344//	AE	DJ		C	Sheet	ｻﾊﾞｷﾆｯﾌﾟﾏｲﾗｰ
25	0CW2214P306//	AV	FG		B	A discharge brush	Aｼﾞｮﾃﾞﾝﾌﾞﾗｼ
26	0CW2214P010//	AV	FG		C	Resist guide	ﾚｼﾞｺﾞｶﾞｲﾄﾞ
27	0CW2214K027//	AX	FG		C	A side plate R ass'y	AｿｸﾊﾞﾝRｶｼﾒｸﾐ
28	0CWE450000897	AC	DJ		C	Clamp (UAMS-05SN-W)	ｸﾗﾝﾌﾟ
29	0CW2214P103//	AD	DJ		C	MSW cover	MSW ｶﾊﾞｰ
30	0CWE450000871	AB	DJ		C	Snap band (SG-110)	ｽﾅｯﾌﾟﾊﾞﾝﾄﾞ
31	0CW2214P406//	AD	DJ		C	SP tube 2	SPﾁｭｰﾌﾞ 2
32	0CW2214K207//	AM	EG		C	ASM-sensor 2 harness	ASM-ｾﾝｻｰ2ﾊｰﾈｽ
33	0CW030080FZBB	AB	DJ		C	Screw (3 X 8)	Bﾀｲﾄﾈｼﾞ
34	0CW030060FZBi	AA	DD		C	Screw (3 X 6)	ﾊﾞｲﾝﾄﾞﾈｼﾞ
35	0CW2199P368//	AD	DJ		C	Stopper cushion	ｽﾄｯﾊﾟｰｸｯｼｮﾝ
36	0CW2158P377//	AB	DJ		C	Screw (3 X 4)	ﾋﾗﾈｼﾞ
37	0CW030060FZBP	AA	DD		C	Screw (3 X 6)	ﾊﾞｲﾝﾄﾞﾀｯﾌﾟﾀｲﾄﾈｼﾞ
38	0CW030040FZWS	AA	DD		C	Screw (3 X 4)	Wｾﾑｽﾈｼﾞ
39	0CW2078P023B/	AC	DJ		C	Screw (M3)	M3ﾀﾞﾝﾋﾞｽ 1.4
40	0CW030060FZTP	AA	DD		C	Screw (3 X 6)	ITﾀｯﾌﾟﾀｲﾄﾈｼﾞ
41	0CW030040FZBi	AA	DD		C	Screw (3 X 4)	ﾊﾞｲﾝﾄﾞﾈｼﾞ
42	0CW030100FZBi	AA	DD		C	Screw (3 X 10)	ﾊﾞｲﾝﾄﾞﾈｼﾞ
43	0CW030060FNBi	AA	DJ		C	Screw (3 X 6)	ﾊﾞｲﾝﾄﾞﾈｼﾞ
44	XRESP30-05000	AA	DD		C	E type ring (3mm)	E ﾘﾝｸﾞ (ER030SKP)
45	0CW2198P302//	AD	DJ		C	Mirror seal	ﾐﾗｰｼｰﾙ
46	0CW2078P086B/	AB	DD		C	Screw 2.2 (M3)	M3 ﾀﾞﾝﾈｼﾞ 2.2
47	0CW030040FZiT	AA	DD		C	Screw (3 X 4)	ITﾈｼﾞ
48	0CW4016P167A/	AA	DJ		C	Screw (SCR030050)	ﾋﾞｽ
49	XRESP40-06000	AA	DD		C	E type ring (4mm)	E ﾘﾝｸﾞ (ER040SKP)
54	0CW2214P477//	AH	DX		C	Front plate rubber	ﾏｴｻﾊﾞｷｺﾞﾑ
55	0CW2214P475//	AE	DJ		C	Shutter F sheet	ｼｬｯﾀｰFﾏｲﾗｰ
57	0CW2214P455//	AE	DS		C	Lock plate spring	ﾛｯｸｲﾀﾊﾞﾈ
58	0CW2214P379//	AH	DX		C	Resist guide sheet	ﾚｼﾞｶﾞｲﾄﾞﾏｲﾗｰ
59	0CW2214P458//	AG	DX		C	U turn guide sheet	Uﾀｰﾝｶﾞｲﾄﾞﾏｲﾗｰ
60	0CW2214P154//	AH	DX		C	Spring	ｻﾊﾞｷｶｲｼﾞｮﾊﾞﾈ
61	0CWE450000574	AC	DJ		C	Wire clamp (UAMS-05S-2)	ﾜｲﾔｰｸﾗﾝﾌﾟ
62	0CW2214P144//	AF	DS		C	EMP sensor bracket	EMPｾﾝｻｰﾌﾞﾗｹｯﾄ
63	0CW2214P482//	AD	DJ		C	Rubber	ｳﾚﾀﾝｺﾞﾑ
64	0CW2214P484//	AE	DS		C	Plate 1 front sheet	ｻﾊﾞｷ1ﾏｴﾏｲﾗｰ
65	0CW2214P483//	AD	DJ		C	Plate 1 rubber	ｻﾊﾞｷｲﾀ1ｺﾞﾑ
66	0CW2214P494//	AD	DJ		C	Plate 1 sheet (Japan only)	ｻﾊﾞｷﾌﾟﾚｰﾄ1-K ﾏｲﾗｰ
	0CW2214P486//	AD	DJ		C	Plate 1 sheet (Except Japan)	ｻﾊﾞｷﾌﾟﾚｰﾄ1ﾏｲﾗｰ
67	0CW2214P487//	AF	DS		C	Sheet (Except Japan)	ｻﾊﾞｷﾎｷｮｳﾏｲﾗｰ
68	0CW2214P156//	AN	EQ		C	Plate 1	ｻﾊﾞｷﾌﾟﾚｰﾄ 1
69	0CW2214P485//	AD	DJ		C	Spring	ｻﾊﾞｷｶｲｼﾞｮﾊﾞﾈ
70	0CW2078P119B/	AB	DD		C	Screw	M3ﾀﾞﾝﾋﾞｽ3.2
72	0CW2205P050//	AD	DJ		C	Resist collar	ﾚｼﾞｽﾄｺﾛ
73	0CW2205P153//	AF	DS		C	Separator stay	ﾌﾞﾝﾘｽﾃｲ
74	0CW2214P048//	AG	DS		C	Reverse drum	ｷﾞｬｸﾃﾝﾄﾞﾗﾑ
75	0CW2214P372//	AH	DX		C	Spring	ｻﾊﾞｷｽﾌﾟﾘﾝｸﾞ
76	0CW2214P052//	AR	EQ		C	Reverse joint (Japan only)	ｷﾞｬｸﾃﾝｼﾞｮｲﾝﾄB
	0CW2214P047//	AG	DS		C	Reverse joint (Except Japan)	ｷﾞｬｸﾃﾝｼﾞｮｲﾝﾄ
77	0CW2214P213//	AK	EB		C	Separator shaft	ﾌﾞﾝﾘｼﾞｸ
78	0CW2205P052//	AE	DJ		C	Slide bearing	ｽﾗｲﾄﾞｼﾞｸｳｹ
79	0CW2214P474//	AY	FQ		C	Separator roller S	ﾌﾞﾝﾘﾛｰﾗｰS
80	0CW2205P051//	AE	DJ		B	Bearing (φ5)	ｼﾞｸｳｹ5
81	0CW2214P391//	AG	DS		C	Separator pressure spring F	ﾌﾞﾝﾘｱﾂｾﾂﾊﾞﾈF
82	0CW2205P035//	AF	DS		C	Separator roller holder	ﾌﾞﾝﾘﾛｰﾗｰﾎﾙﾀﾞｰ
83	0CW2214P392//	AG	DS		C	Separator pressure spring R	ﾌﾞﾝﾘｱﾂｾﾂﾊﾞﾈR
84	0CW020050FZSA	AB	DJ		C	Screw (2 X 5)	ｻﾗﾈｼﾞ

4 給紙搬送部2 (Paper feeding transport section 2)

NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION	
85	0CW2205P152//	AK	EB		C	Separator bracket	ﾌﾟﾝﾘﾌﾞﾗｹｯﾄ
86	0CW2214P376//	AH	DX		C	Resist sheet	ﾚｼﾞｺﾏｲﾗｰ
87	0CW2214P493//	AG	DS		C	Stay edge sheet	ｻﾊﾞｷｽﾃｲｴｯｼﾞﾏｲﾗｰ
88	0CW2158P030//	AG	DS	N	C	R sensor cover	Rｾﾝｻｰ ｶﾊﾞｰ
89	0CW2214P454//	AD	DJ	N	C	Sheet	ｱｯｶﾞﾐﾏｲﾗｰ
90	0CW2158P348//	AE	DS	N	C	Noise protecter	ﾎﾞｳｵﾝｻﾞｲ

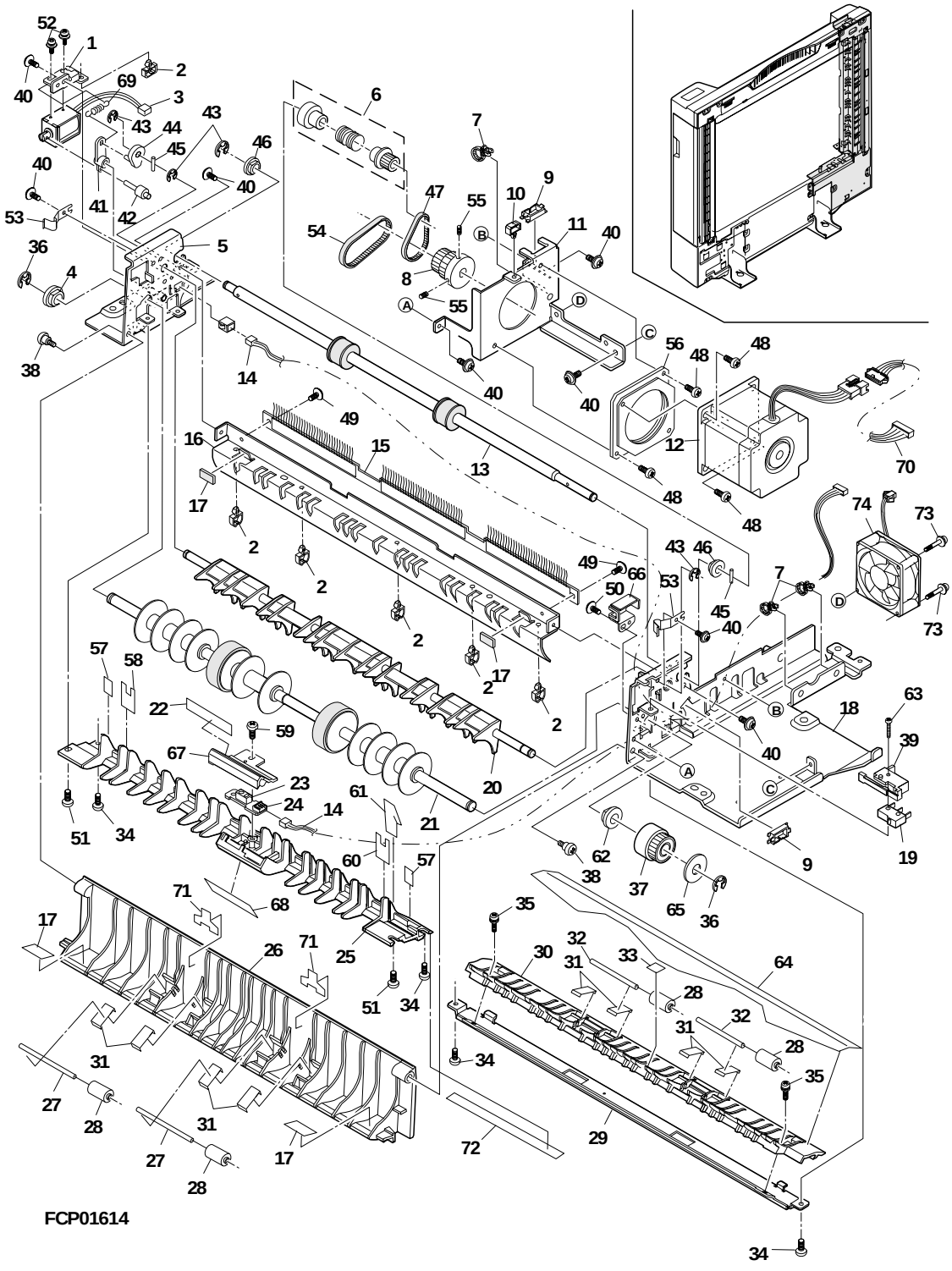
5 SF-A57反転搬送部 (SF-A57 Reversion transport section)

NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION	
1	0CW2214P113//	AF	DS		C	Flapper solenoid bracket	ﾌﾗｯﾊﾟｰSOLﾌﾞﾗｹｯﾄ
2	0CWE450000574	AC	DJ		C	Wire clamp (UAMS-05S-2)	ﾜｲﾔｰｸﾗﾝﾌﾟ
3	0CW2214P402//	AU	FG		B	Solenoid (SOL-TDS-06A-4013)	ｿﾚﾉｲﾄﾞ
4	0CW319300////	AD	DJ		C	Bearing (8MM)	ｼﾞｸｳｹ 8MM
5	0CW2214K004//	AR	EQ		C	Turn over side plate F ass'y	ﾊﾝﾃﾝｿｸﾊﾞﾝFｶｼﾒｸﾐ
6	0CW2214P349//	AN	EQ		C	Pulley (PLY-S2M-17-0W)	ﾌﾟｰﾘｰ
7	0CWE450000871	AB	DJ		C	Snap band (SG-110)	ｽﾅｯﾌﾟﾊﾞﾝﾄﾞ
8	0CW2214P348//	AX	FG		C	Pulley (PLY-S2M-28-31)	ﾌﾟｰﾘｰ
9	0CWE450000842	AC	DJ		C	Edge saddle (EDS-0607M)	ｴｯｼﾞｻﾄﾞﾙ
10	0CWE450000896	AC	DJ		C	Clamp (UAMS-02WH-2)	ｸﾗﾝﾌﾟ
11	0CW2214P120//	AQ	EQ		C	Turn over motor bracket	ﾊﾝﾃﾝﾓｰﾀｰﾌﾞﾗｹｯﾄ
12	0CW2214P401//	BH	HC		B	Motor (MOT-KH56JM2-006)	ﾓｰﾀｰ
13	0CW2214P323//	AV	FG		C	R delivery roller	Rﾊｲｼﾛｰﾗ
14	0CW2223K211//	AN	EG	N	C	ASM-RU harness	ASM-RUﾊｰﾈｽ
15	0CW2214P377//	AS	EZ		B	Delivery discharge brush	ﾊｲｼｼﾞｮﾃﾞﾝﾌﾞﾗｼ
16	0CW2214P143//	AP	EQ		C	R guide 2	Rｶﾞｲﾄﾞ 2
17	0CW2214P347//	AD	DJ		C	Flapper rubber	ﾌﾗｯﾊﾟｰｺﾞﾑ
18	0CW2214K002//	AW	FG		C	Turn over side plate R ass'y	ﾊﾝﾃﾝｿｸﾊﾞﾝRｶｼﾒｸﾐ
19	0CWE120000870	AM	EG		B	Microswitch (SS-5T)	ﾏｲｸﾛｽｲｯﾁ
20	0CW2214P332//	AV	FG		C	Flapper	ﾌﾗｯﾊﾟｰ
21	0CW2214P331//	BD	GN		C	Turn over roller	ﾊﾝﾃﾝﾛｰﾗｰ
22	0CW2214P381//	AD	DJ		C	H sensor upper sheet	Hｾﾝｻｰｳｴﾏｲﾗｰ
23	0CW2214P038//	AE	DJ		C	Sensor spacer	ｾﾝｻｰｽﾍﾟｰｻｰ
24	0CW2214K222//	AS	EQ		E	PBA sensor PWB	PBA-ﾊﾝﾃﾝｾﾝｻｰｷﾊﾞﾝ
25	0CW2214P012//	AR	EQ		C	R lower guide	Rｼﾀｶﾞｲﾄﾞ
26	0CW2214P015//	AX	FG		C	Turn over guide cover	ﾊﾝﾃﾝｶﾞｲﾄﾞｶﾊﾞｰ
27	0CW2214P209//	AE	DJ		C	U turn over collar shaft	Uﾊﾝﾃﾝｺﾛｼﾞｸ
28	0CW2214P033//	AE	DJ		C	Turn over collar	ﾊﾝﾃﾝｺﾛ
29	0CW2214P130//	AP	EQ		C	H reinforce plate	Hﾎｷｮｳﾌﾟﾚｰﾄ
30	0CW2214P011//	AQ	EQ		C	Lower guide	ｼﾀｶﾞｲﾄﾞ
31	0CW2214P124//	AE	DJ		C	Turn over collar plate spring	ﾊﾝﾃﾝｺﾛｲﾀﾊﾞﾈ
32	0CW2214P208//	AD	DJ		C	Turn over collar shaft	ﾊﾝﾃﾝｺﾛｼﾞｸ
33	0CW2214P352//	AD	DJ		C	Turn over seal	ﾊﾝﾃﾝﾐﾗｰｼｰﾙ
34	0CW030060FZBi	AA	DD		C	Screw (3 X 6)	ﾊﾞｲﾝﾄﾞﾈｼﾞ
35	0CW030060FZSW	AA	DD		C	Screw (3 X 6)	Wｾﾑｽﾈｼﾞ
36	XRESP70-08000	AA	DD		C	E type ring (7mm)	E ﾘﾝｸﾞ(ER070SKP)
37	0CW2214P328//	AS	EQ		C	Pulley (PLY-S2M-30-0W)	ﾌﾟｰﾘｰ
38	0CW2078P023B/	AC	DJ		C	Screw (M3)	M3ﾀﾞﾝﾋﾞｽ 1.4
39	0CW2158P003C/	AE	DS		C	Switch lever	SWﾚﾊﾞｰ
40	0CW030060FZTP	AA	DD		C	Screw (3 X 6)	ITﾀｯﾌﾟﾀｲﾄﾈｼﾞ
41	0CW2158P009A/	AD	DJ		C	R flapper link	Rﾌﾗｯﾊﾟｰﾘﾝｸ
42	0CW2158P005A/	AD	DJ		C	Solenoid stopper pin	SOLｽﾄｯﾊﾟｰﾋﾟﾝ
43	XRESP50-06000	AA	DD		C	E type ring (5mm)	E ﾘﾝｸﾞ(ER050SKP)
44	0CW2147P033A/	AC	DD		C	R flapper link 1	Rﾌﾗｯﾊﾟｰﾘﾝｸ 1
45	0CW020100SCH/	AA	DD		C	Pin (φ2 X 10)	ﾍｲｺｳﾋﾟﾝ
46	0CW2158P521//	AE	DJ		C	Bearing 6	ｼﾞｸｳｹ 6
47	0CW2094P090A/	AH	DX		C	Timing belt (44-40S2M88)	ﾀｲﾐﾝｸﾞﾍﾞﾙﾄ
48	0CW040080FZBi	AA	DD		C	Screw (4 X 8)	ﾊﾞｲﾝﾄﾞﾈｼﾞ
49	0CW4016P167A/	AA	DJ		C	Screw (SCR030050)	ﾋﾞｽ
50	0CW030060FZBP	AA	DD		C	Screw (3 X 6)	ﾊﾞｲﾝﾄﾞﾀｯﾌﾟﾀｲﾄﾈｼﾞ
51	0CW2078P086B/	AB	DD		C	Screw 2.2 (M3)	M3 ﾀﾞﾝﾈｼﾞ 2.2
52	0CW030050FZSW	AB	DJ		C	Screw (3 X 5)	Wｾﾑｽﾈｼﾞ
53	0CW2214P455//	AE	DS		C	Lock plate spring	ﾛｯｸｲﾀﾊﾞﾈ
54	0CW2107P032//	AN	EG		C	Belt (S2M-56-4)	ﾍﾞﾙﾄ
55	0CW040100FPWP	AC	DJ		C	Screw (4 X 10)	6ｶｸﾒｯｷﾄﾒﾈｼﾞ
56	0CW2221P336//	AU	EZ	N	C	Protect rubber	ﾎﾞｳｼｺﾞﾑ
57	0CW2214P464//	AE	DJ		C	R lower soft sheet	Rｼﾀｿﾌﾄﾏｲﾗｰ
58	0CW2214P459//	AD	DJ		C	R lower guide sheet F	RｼﾀｶﾞｲﾄﾞﾏｲﾗｰF
59	0CW030080FZBB	AB	DJ		C	Screw (3 X 8)	Bﾀｲﾄﾈｼﾞ
60	0CW2214P460//	AD	DJ		C	R lower guide sheet R	RｼﾀｶﾞｲﾄﾞﾏｲﾗｰR
61	0CW2214P466//	AG	DX		C	R lower sheet	Rｼﾀﾘﾌﾞﾏｲﾗｰ
62	0CW338410////	AE	DJ	N	B	Bearing 8	ｼﾞｸｳｹ 8
63	0CW023120FBWS	AB	DJ	N	C	Screw (2.3 X 12)	Wｾﾑｽﾈｼﾞ
64	0CW2214P472//	AP	EQ		C	Turn over sheet	ﾊﾝﾃﾝﾏｲﾗｰ
65	0CW2214P146//	AD	DJ		C	Belt flange	ﾍﾞﾙﾄﾌﾗﾝｼﾞ
66	0CW2214P103//	AD	DJ		C	MSW cover	MSWｶﾊﾞｰ

5 SF-A57反転搬送部 (SF-A57 Reversion transport section)

NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION	
67	0CW2214P046//	AE	DS		C	Turn over sensor cover	ﾊﾝﾃﾝｾﾝｻｰｶﾊﾞｰ
68	0CW2214P383//	AE	DJ		C	H sensor lower sheet	Hｾﾝｻｰｼﾀﾏｲﾗｰ
69	0CW2214P335//	AD	DJ		C	R flapper spring	Rﾌﾗｯﾊﾟｰﾊﾞﾈ
70	0CW2223K212//	AQ	EQ	N	C	ASM-deive R harness	ASM-ﾄﾞﾗｲﾌﾞ R ﾊｰﾈｽ
71	0CW2214P387//	AE	DS	N	C	Turn over guide sheet	ﾊﾝﾃﾝｶﾞｲﾄﾞﾏｲﾗｰ
72	0CW2214P465//	AM	EG	N	C	H belt guide sheet	Hﾍﾞﾙﾄｶﾞｲﾄﾞﾏｲﾗｰ
73	0CW040300FZWS	AC	DJ	N	C	Screw (4 X 30)	Wｾﾑｽﾈｼﾞ
74	0CW2223P402//	BA	FX	N	B	Fan motor (FAN-TUDC24Y4S-978)	ﾌｧﾝﾓｰﾀｰ

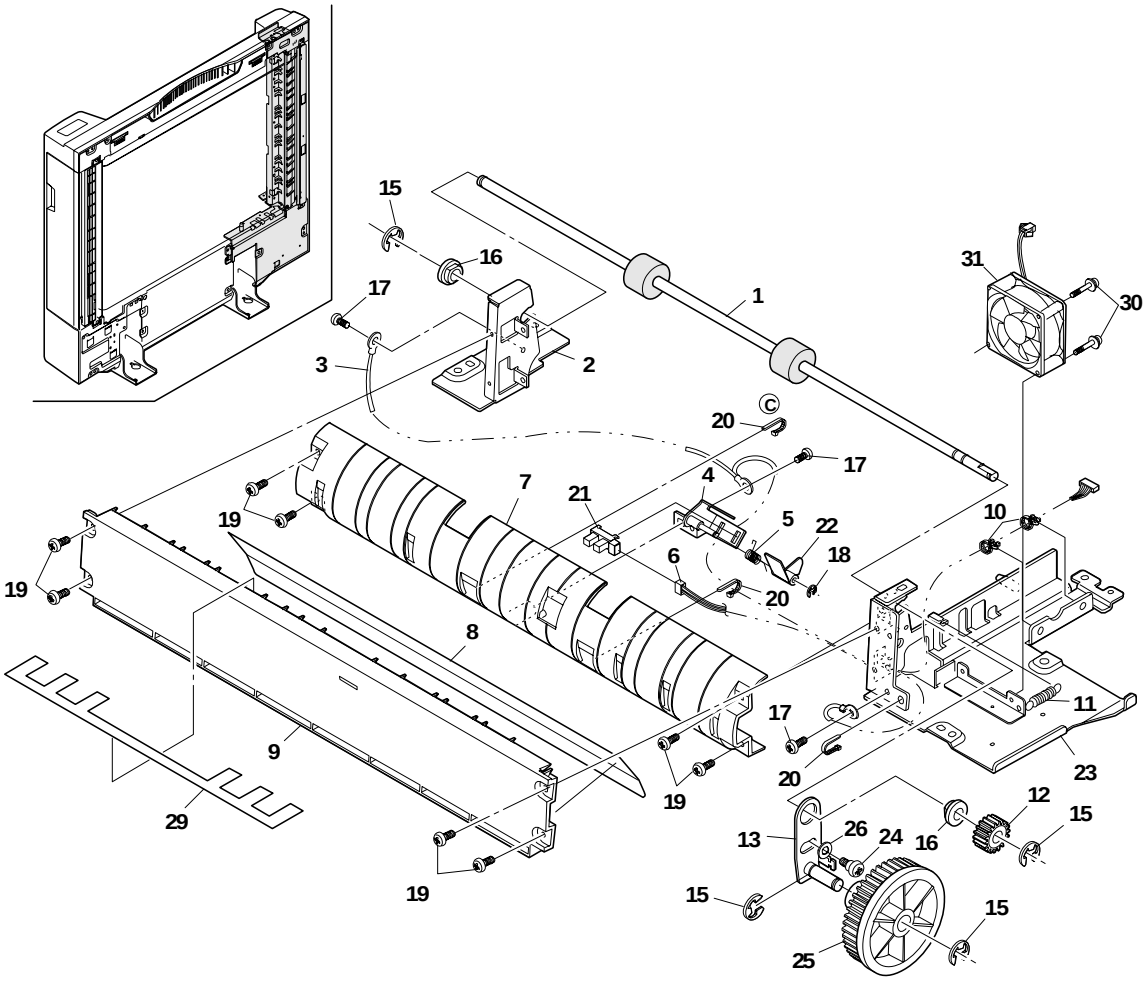
5 SF-A57反転搬送部 (SF-A57 Reversion transport section)



6 SF-A18反転搬送部 (SF-A18 Reversion transport section)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	0CW2215P302//	AY	FQ		C	Delivery roller	ﾊｲｼﾛｰﾗｰ
2	0CW2215P101//	AN	EG		C	Delivery side plate F	ﾊｲｼｿｸﾊﾞﾝF
3	0CW2215K210//	AG	DX		C	ASM-earth wire 15	ASM-ｱｰｽｾﾝ15
4	0CW2215K001//	AL	EB		C	Delivery sensor ass'y	ﾊｲｼｾﾝｻｰｶｼﾒｸﾐ
5	0CW2215P301//	AG	DS		C	Delivery sensor spring	ﾊｲｼｾﾝｻｰﾊﾞﾈ
6	0CW2224K210//	AM	EG	N	C	ASM-RU harness	ASM-RUﾊｰﾈｽ
7	0CW2215P002//	AS	EQ		C	Delivery inside R guide	ﾊｲｼｳﾁRｶﾞｲﾄﾞ
8	0CW2215P303//	AH	DX		C	Delivery guide sheet	ﾊｲｼｶﾞｲﾄﾞﾏｲﾗｰ
9	0CW2215P003//	AS	EQ		C	Delivery soft guide	ﾊｲｼｿﾌﾄｶﾞｲﾄﾞ
10	0CWE450000871	AB	DJ		C	Snap band (SG-110)	ｽﾅｯﾌﾟﾊﾞﾝﾄﾞ
11	0CW2215P304//	AE	DS		C	Tension spring	ﾃﾝｼｮﾝｽﾌﾟﾘﾝｸﾞ
12	0CW2215P004//	AS	EQ		C	Gear (GER-0.8-20-0W)	ｷﾞﾔｰ
13	0CW2215K002//	AK	DX		C	Gear tension ass'y	ｷﾞﾔﾃﾝｼｮﾝｶｼﾒｸﾐ
15	XRESP50-06000	AA	DD		C	E type ring (5mm)	E ﾘﾝｸﾞ (ER050SKP)
16	0CW2158P521//	AE	DJ		C	Bearing 6	ｼﾞｸｳｹ 6
17	0CW030060FNBi	AA	DJ		C	Screw (3 X 6)	ﾊﾞｲﾝﾄﾞﾈｼﾞ
18	XRESP20-04000	AA	DD		C	E type ring	E ﾘﾝｸﾞ (ER020SKP)
19	0CW030060FBBi	AA	DD		C	Screw (3 X 6)	ｺﾈｼﾞ
20	0CWE450000005	AA	DD		C	Wire band (SKB-1M)	ﾜｲﾔｰﾊﾞﾝﾄﾞ
21	0CWE314000528	AL	EB		B	Photo interrupter (TLP1240(C5))	ﾌｫﾄｲﾝﾀﾗﾌﾟﾀｰ
22	0CW2215P006//	AE	DJ		C	Delivery sensor lever	ﾊｲｼｾﾝｻｰﾚﾊﾞｰ
23	0CW2224K038//	AX	FG	N	C	24 Delivery side plate R ass'y	24ﾊｲｼｿｸﾊﾞﾝRｶｼﾒｸﾐ
24	0CW2078P023B/	AC	DJ		C	Screw	M3ﾀﾞﾝﾋﾞｽ1.4
25	0CW2205P017//	AF	DS		C	Gear (GER-080-42)	ｷﾞﾔｰ
26	0CWPW050025//	AB	DJ	N	C	Washer	ﾎﾟﾘｽﾗｲﾀﾞｰ
29	0CW2215P334//	AH	DX	N	C	Outer guide sheet	ｿﾄｶﾞｲﾄﾞﾏｲﾗｰ
30	0CW040300FZWS	AC	DJ	N	C	Screw (4 X 30)	Wｾﾑｽﾈｼﾞ
31	0CW2223P402//	BA	FX	N	B	Fan motor (FAN-TUDC24Y4S-978)	ﾌｧﾝﾓｰﾀｰ

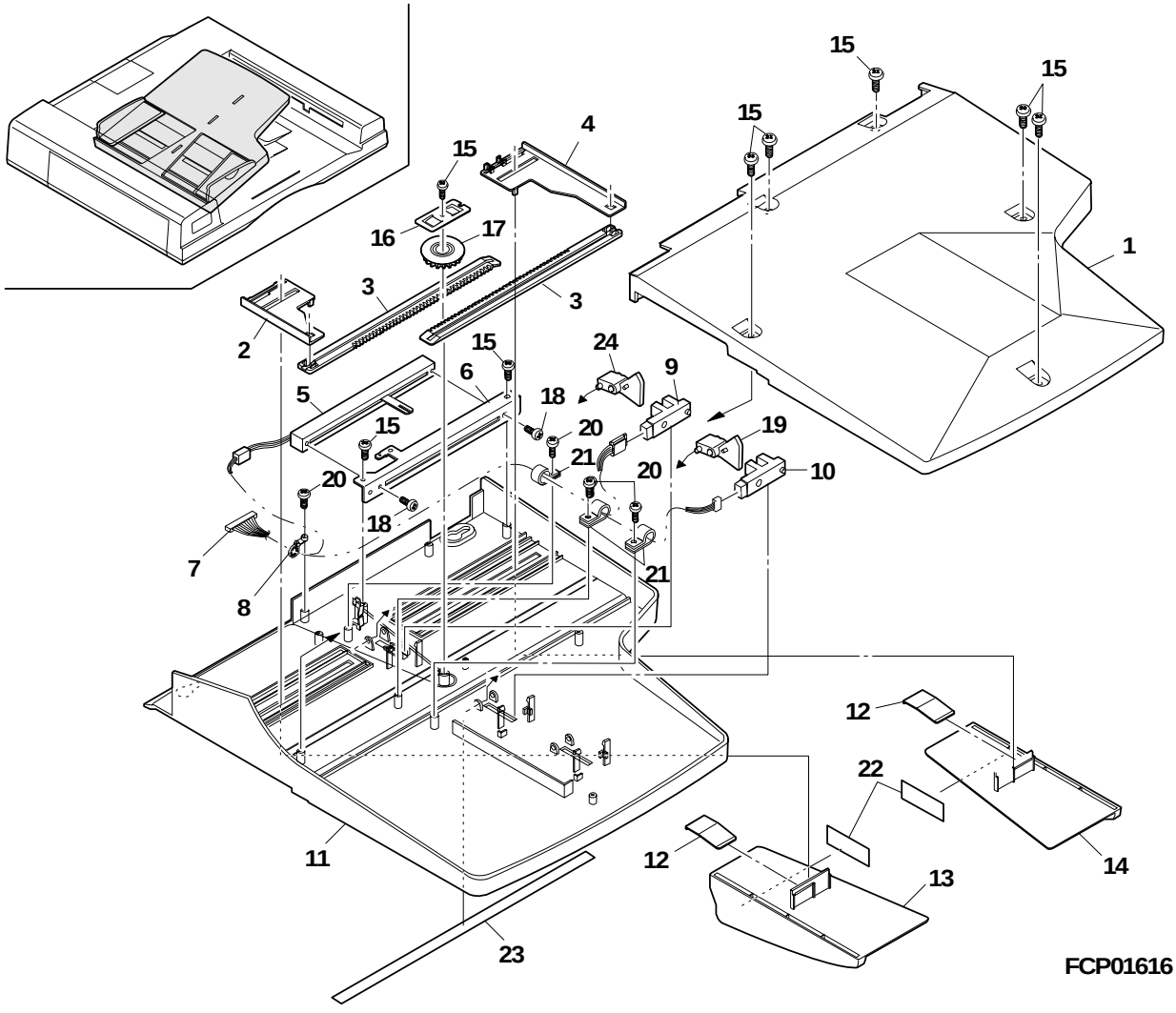
6 SF-A18反転搬送部 (SF-A18 Reversion transport section)



7 給紙ﾄﾚｲ部 (Paper feedig tray section)

NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION	
1	0CW2214P016//	AZ	FX		C	Tray cover	ﾄﾚｲｶﾊﾞｰ
2	0CW2214P005//	AG	DS		C	Slide holder R	ｽﾗｲﾄﾞﾌｫﾙﾀﾞｰR
3	0CW2214P004//	AF	DS		C	Tray rack	ﾄﾚｲﾗｯｸ
4	0CW2214P039//	AG	DS		C	Slide holder F	ｽﾗｲﾄﾞﾌｫﾙﾀﾞｰF
5	0CW2214K213//	AX	FG		C	ASM-VR harness	ASM-VRﾊｰﾈｽ
6	0CW2214P128//	AK	DX		C	Slide switch bracket	ｽﾗｲﾄﾞ SW ﾌﾞﾗｹｯﾄ
7	0CW2214K202//	AT	EZ		C	ASM-TRAY harness	ASM-TRAYﾊｰﾈｽ
8	0CWE450000368	AD	DJ		C	Clamp (T18MR)	ｸﾗﾝﾌﾟ
9	0CWE314000336	AR	EQ		B	Photo interrupter (GP1A22HR)	ﾌｫﾄｲﾝﾀﾗﾌﾟﾀｰ
10	0CWE314000120	AM	EG		B	Photo interrupter (GP1A25LC)	ﾌｫﾄｲﾝﾀﾗﾌﾟﾀｰ
11	0CW2214P017//	BA	FX		C	Original tray	ｹﾞﾝｺｳﾄﾚｲ
12	0CW2214P129//	AF	DS		C	Tray guide plate spring	ﾄﾚｲｶﾞｲﾄﾞｲﾀﾊﾞﾈ
13	0CW2214P002//	AK	DX		C	Tray guide R	ﾄﾚｲｶﾞｲﾄﾞR
14	0CW2214P003//	AK	DX		C	Tray guide F	ﾄﾚｲｶﾞｲﾄﾞF
15	0CW030080FZBB	AB	DJ		C	Screw (3 X 8)	Bﾀｲﾄﾈｼﾞ
16	0CW2199P117//	AE	DS		C	Tray plate spring	ﾄﾚｲｲﾀﾊﾞﾈ
17	0CW2142P180B/	AD	DJ		C	Tray gear 22	ﾄﾚｲｷﾞﾔ 22
18	0CW030060FNBi	AA	DJ		C	Screw (3 X 6)	ﾊﾞｲﾝﾄﾞﾈｼﾞ
19	0CW2199P017//	AH	DX		C	Tray sensor lever	ﾄﾚｲｾﾝｻｰﾚﾊﾞｰ
20	0CW030100FBBB	AB	DJ		C	Screw (3 X 10)	Bﾀｲﾄﾈｼﾞ
21	0CWE450000067	AC	DJ		C	Wire clamp (NK-2N)	ﾜｲﾔｰｸﾗﾝﾌﾟ
22	0CW2158P354//	AD	DJ	N	C	Indicator label	ｼｼﾞｾﾝ ﾗﾍﾞﾙ
23	0CW2198P360//	AR	EQ		D	Tray scale (AB) (AB series)	ﾄﾚｲｽｹｰﾙ(AB)
	0CW2214P385//	AN	EG		D	Tray scale (INCH) (inch series)	ﾄﾚｲｽｹｰﾙ(ｲﾝﾁ)
	0CW2214P479//	AR	EQ		C	Tray scale (AB) (Japan only)	ﾄﾚｲｽｹｰﾙ(AB)
	0CW2214P480//	AL	EB		D	Tray scale (AB) (AB series)	ﾄﾚｲｽｹｰﾙ(AB)
24	0CW2214P045//	AL	EB	N	C	Tray sensor lever 3	ﾄﾚｲｾﾝｻｰﾚﾊﾞｰ 3

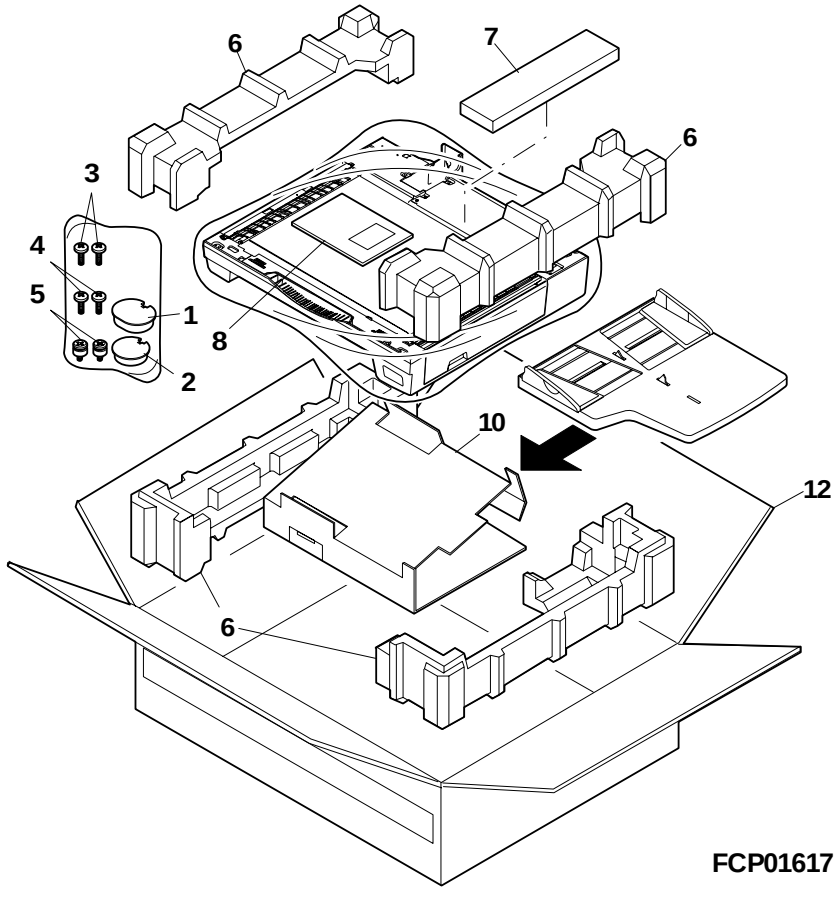
7 給紙ﾄﾚｲ部 (Paper feedig tray section)



8 梱包材&付属品 (Packing material & Accessories)

NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION		
1	PCOVP0911FCZZ	AB	DD		D	Upper exterior rear cover R		ｳｴｷｬﾋﾞｱﾄｶﾊﾞｰ R
2	PCOVP0941FCZZ	AB	DD		D	Upper exterior rear cover L		ｳｴｷｬﾋﾞｱﾄｶﾊﾞｰ L
3	0CW040080FNBi	AA	DD		C	Screw (4 X 8)		ﾊﾞｲﾝﾄﾞﾈｼﾞ
4	0CW050120FNBi	AB	DJ		C	Screw (5 X 12)		ﾊﾞｲﾝﾄﾞﾈｼﾞ
5	0CW2158P328B/	AF	DS		C	Screw		ﾀﾞﾝﾈｼﾞ R
6	0CW2214K058//	BB	GD		D	Packing add ass'y		ｺﾝﾎﾟｳﾊﾟｯﾄｸﾐ
7	0CW2214P470//	AH	DX		D	Fixing pad		ｵｻｴﾊﾟｯﾄ
8	0CW2223P307//	AV	FG	N	D	Card (Japanese)		ｾｯﾁﾃｼﾞｭﾝｼｮ
	0CW2223P308//	AH	DX	N	D	Card (English)		ｾｯﾁﾃｼﾞｭﾝｼｮ
	0CW2223P309//	AT	EZ	N	D	Card (E.F.G.S)		ｾｯﾁﾃｼﾞｭﾝｼｮ
10	0CW2214P384//	AP	EQ		D	Tray pad		ﾄﾚｲﾊﾟｯﾄ
12	0CW2223P300//	BA	FX	N	D	Packing case (Japan only) (Japan only)	(SF-A57)	ｺﾝﾎﾟｳﾊﾞｺ
	0CW2223P301//	BA	FX	N	D	Packing case (Except Japan) (Except Japan)	(SF-A57)	ｺﾝﾎﾟｳﾊﾞｺ (ｶｲｶﾞｲ)
	0CW2224P300//	BA	FX	N	D	Packing case (Japan only) (Japan only)	(SF-A18)	ｺﾝﾎﾟｳﾊﾞｺ
	0CW2224P301//	BA	FX	N	D	Packing case (Except Japan) (Except Japan)	(SF-A18)	ｺﾝﾎﾟｳﾊﾞｺ (ｶｲｶﾞｲ)
101	0CW2214K113//	AD	DJ	N	C	Screw ass'y (4 X 8)		ﾊﾞｲﾝﾄﾞﾈｼﾞｸﾐ

8 梱包材&付属品 (Packing material & Accessories)



FCP01617

9 SF-A57 PBA-ｺﾝﾄﾛｰﾙ基板 (SF-A57 PBA-Control PWB)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	0CWE73423M106	AC	DJ		C	Capacitor (CESEM1E100-F) [C10,C11]	ｺﾝﾃﾞﾝｻ
2	0CWE73303Z104	AB	DJ		C	Capacitor (GRM40F104Z25PT) [C35~C39,C42~C44,C46,C47,C49,C50]	ｺﾝﾃﾞﾝｻ
3	0CWE73268J101	AF	DS		C	Capacitor (GRM40CH101J50PT) [C32,C33]	ｺﾝﾃﾞﾝｻ
4	0CWE73303Z105	AD	DJ		C	Capacitor (GRM40F105Z16PT) [C41,C45,C48,C51,C52,C59~C62]	ｺﾝﾃﾞﾝｻ
5	0CWE73431M107	AF	DS		C	Capacitor (CEEFM1H101M5-F) [C53,C54]	ｺﾝﾃﾞﾝｻ
6	0CWE73423M476	AC	DJ		C	Capacitor (CESEM1C470M-F) [C55]	ｺﾝﾃﾞﾝｻ
7	0CWE73423M475	AC	DJ		C	Capacitor (CESEM1H4R7-F) [C57]	ｺﾝﾃﾞﾝｻ
8	0CWE73303Z224	AC	DJ		C	Capacitor (GRM40F224Z50PT) [C56]	ｺﾝﾃﾞﾝｻ
9	0CWE74212WE06	AE	DJ		C	Connector (DF1B-6P-25DSA) [CN4]	ｺﾈｸﾀ
10	0CWE74212WE08	AE	DJ		C	Connector (DF1B-8P-2.5DSA) [CN7]	ｺﾈｸﾀ
11	0CWE74212WE09	AE	DS		C	Connector (DF1B-9P-25DSA) [CN5]	ｺﾈｸﾀ
12	0CWE323000305	AP	EQ		B	IC (ST93C46CM1) [IC3]	IC
13	0CWE321000645	BB	GD		B	IC (STK6713BMK4) [IC8]	IC
14	0CWE321000644	AZ	FQ		B	IC (STK6712BMK4) [IC12]	IC
15	0CWE312001362	AC	DJ		B	Transistor (FN1L3M) [Q12]	ﾄﾗﾝｼﾞｽﾀ
16	0CWE312001293	AR	EQ		B	FET (2SJ265) [Q13]	ﾄﾗﾝｼﾞｽﾀ
17	0CWE312001368	AK	DX		B	FET (2SK1282-Z) [Q15]	ﾄﾗﾝｼﾞｽﾀ
18	0CWE312001310	AC	DJ		B	Transistor (FA1L3M) [Q17]	ﾄﾗﾝｼﾞｽﾀ
19	0CWE70162F101	AA	DJ	N	C	Resistor (CRG8SG101F) [R93,R94]	ﾃｲｺｳ
20	0CWE70162J181	AA	DJ		C	Resistor (CRG8SG181J) [R100,R101]	ﾃｲｺｳ
21	0CWE70188J203	AA	DJ		C	Resistor (CRG10G203J) [R105]	ﾃｲｺｳ
22	0CWE70162J202	AA	DJ		C	Resistor (CRG8SG202J) [R106]	ﾃｲｺｳ
23	0CWE70162J100	AA	DJ		C	Resistor (CRG8SG100J) [R118]	ﾃｲｺｳ
24	0CWE70188J154	AA	DJ		C	Resistor (CRG10G154J) [R47]	ﾃｲｺｳ
25	0CWE70213JR39	AC	DJ		C	Resistor (RSSX1U039Ω J) [R97~R99]	ﾃｲｺｳ
26	0CWE70188F751	AA	DJ		C	Resistor (CRG10G751F) [R67]	ﾃｲｺｳ
27	0CWE70162J472	AA	DJ		C	Resistor (CRG8SG472J) [R25]	ﾃｲｺｳ
28	0CWE70205F222	AC	DJ	N	C	Resistor (CRG2G222F) [R107]	ﾃｲｺｳ
29	0CWE70188F243	AA	DJ		C	Resistor (CRG10G243F) [R39]	ﾃｲｺｳ
30	0CWE70188F683	AA	DJ		C	Resistor (CRG10G683F) [R112,R113]	ﾃｲｺｳ
31	0CWE70188F912	AA	DJ		C	Resistor (CRG10G912F) [R66,R114]	ﾃｲｺｳ
32	0CWE70188F153	AA	DJ		C	Resistor (CRG10G153F) [R116]	ﾃｲｺｳ
33	0CWE420001011	AC	DJ		C	Test pin (LC-3-SBK) [GND]	ﾃｽﾄﾋﾟﾝ
34	0CWE76008H160	AD	DJ		B	Diode (RD16MB2) [ZD3]	ﾀﾞｲｵｰﾄﾞ
35	0CWE76008G180	AD	DJ		B	Diode (RD18MB1) [ZD5~ZD7]	ﾀﾞｲｵｰﾄﾞ
36	0CW73425M107E	AC	DJ		C	Capacitor (CEDSM1E101M-F) [C1]	ｺﾝﾃﾞﾝｻｰ
37	0CW73328K102H	AA	DD		C	Capacitor (0.01μ F/50V) [C2~C7]	ｾﾗﾐｯｸｺﾝﾃﾞﾝｻｰ
38	0CW73303Z334C	AD	DJ		C	Capacitor (GRM40F334Z16PT) [C9]	ｺﾝﾃﾞﾝｻｰ
39	0CW73328K103H	AA	DD		C	Capacitor (GRM40B103K50PT) [C12,C13,C16~18,C21~C23,C27]	ｺﾝﾃﾞﾝｻｰ
40	0CW73328K332H	AA	DD		C	Capacitor (GRM40B332K50PT) [C24]	ｺﾝﾃﾞﾝｻｰ
41	0CW73303Z104H	AB	DD		C	Capacitor (GRM40F104Z50PT) [C14,C15,C19,C20,C25,C26,C28~C30]	ｺﾝﾃﾞﾝｻｰ
42	0CW73425M476V	AC	DJ		C	Capacitor (CEDSM1V470-F) [C31,C40]	ｺﾝﾃﾞﾝｻｰ
43	0CW73423M105H	AC	DJ		C	Capacitor (CESEM1H10-F) [C34,C58]	ｺﾝﾃﾞﾝｻｰ
44	0CWE74299BK06	AB	DD		C	Connector (DF3-6P-2DSA) [CN9]	ｺﾈｸﾀｰ
45	0CWE74340WE09	AE	DJ		C	Connector (173981-9) [CN2]	ｺﾈｸﾀｰ
46	0CWE74291WE04	AC	DJ		C	Connector (53258-0420) [CN6]	ｺﾈｸﾀｰ
47	0CWE74340WE10	AE	DS		C	Connector (1-173981-0) [CN3]	ｺﾈｸﾀｰ
48	0CWE74340WE12	AF	DS		C	Connector (1-173981-2) [CN1]	ｺﾈｸﾀｰ
49	0CWE74340WE08	AE	DJ		C	Connector (173981-8) [CM8]	ｺﾈｸﾀｰ
50	0CWE311000978	AD	DJ		B	Diode (SB02-03Q) [D1~D4]	ﾀﾞｲｵｰﾄﾞ
51	0CWE311000977	AB	DD		B	Diode (DSA010) [D6]	ﾀﾞｲｵｰﾄﾞ
52	0CWE311001020	AE	DS		B	Diode (SS14) [D7,D8]	ﾀﾞｲｵｰﾄﾞ
53	0CWE311001019	AD	DJ		B	Diode (S1G-G11) [D9,D10]	ﾀﾞｲｵｰﾄﾞ
54	0CWE77002373A	AL	EB		B	IC (TC74HC373AF) [IC1]	IC
55	0CWE74269BK28	AD	DJ		C	IC socket (2-641605-3) [for IC2]	ICｿｹｯﾄ
56	0CWE7700214A／	AG	DX		B	IC (TC74HC14AF) [IC4]	IC
57	0CWE7702006／／	AG	DS		B	IC (HD74LS06PF) [IC5]	IC
58	0CWE321000320	AK	DX		B	IC (M51953BFP) [IC6]	IC
59	0CW2198P422／／	AY	FQ	N	B	LSI (LSI-LC93043A-V54) [IC7]	LSI
60	0CWE321000358	AG	DX		B	IC (UPC339G2) [IC9]	IC
61	0CWE321000650	BB	GD		B	IC (STK681-050) [IC10]	IC
62	0CWE323000280	BC	GJ		B	IC (uPD78233GC-3B9) [IC11]	IC
63	0CWE321000646	AG	DS	N	B	IC (LA6358NM) [IC13,IC14]	IC
64	0CWE230000031	AK	DX		B	Coil (SK-8MS-5Y) [L1,L2]	ｺｲﾙ
65	0CWE314000337	AB	DD		B	LED (GL3PR8) [LED1]	LED
66	0CWE250000107	AX	FX		B	Oscillator (CST9.83MTW) [OSC1]	ｸﾘｽﾀﾙ
67	0CWE250000141	AG	DX		B	Oscillator (CST5.0MGW040) [OSC2]	ｸﾘｽﾀﾙ
68	0CWE120000897	AD	DJ		B	Push switch (SKHHPK) [PSW1]	ﾌﾟｯｼｭｽｲｯﾁ
69	0CWE312001240	AC	DD		B	Transistor (FN1L3N) [Q1,Q2]	ﾄﾗﾝｼﾞｽﾀｰ
70	0CWE312000082	AC	DJ		B	Transistor (2SC2712) [Q3-Q5]	ﾄﾗﾝｼﾞｽﾀｰ
71	0CWE312001081	AB	DD		B	Transistor (FA1L3N) [Q7~Q11]	ﾃﾞｼﾞﾀﾙﾄﾗﾝｼﾞｽﾀｰ
72	0CWE312001363	AG	DX		B	FET (2SK1726) [Q14]	FET
73	0CWE70188J223	AA	DJ		C	Resistor (CRG10GJ223J) [R1~R5]	ﾃｲｺｳ
74	0CWE70188J103	AA	DJ		C	Resistor (CRG10G103J) [R8~R13,R16,R17,R20~R24,R26~R28, R30,R32~R38,R40~R43,R64,R70,R86,R87]	ﾃｲｺｳ
75	0CWE70188J104	AA	DJ		C	Resistor (CRG10G104J) [R45,R46,R48,R49]	ﾃｲｺｳ
76	0CWE70188J100	AA	DJ		C	Resistor (CRG10G100J) [R50]	ﾃｲｺｳ

9 SF-A57 PBA-ｺﾝﾄﾛｰﾙ基板 (SF-A57 PBA-Control PWB)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
77	0CWE70188J472	AA	DJ		C	Resistor (CRG10G472J) [R15,R31,R51,R52,R55~R60,R62,R65,R68,R71,R77]	ﾃｲｺｳ
78	0CWE70188J102	AA	DJ		C	Resistor (CRG10G102J) [R14,R61,R82,R83,R88]	ﾃｲｺｳ
79	0CWE70188J105	AA	DJ		C	Resistor (CRG10G105J) [R76,R90]	ﾃｲｺｳ
80	0CWE70188J821	AA	DJ		C	Resistor (CRG10G821J) [R91]	ﾃｲｺｳ
81	0CWE70197J4R7	AA	DJ		C	Resistor (ERD25FAJ4R7) [R44,R92]	ﾃｲｺｳ
82	0CWE70188F202	AA	DJ	N	C	Resistor (CRG10G202F) [R80,R81]	ﾃｲｺｳ
83	0CWE70188J153	AA	DJ		C	Resistor (CRG10G153J) [R29,R115]	ﾃｲｺｳ
84	0CWE70188J152	AA	DJ		C	Resistor (CRG10G152J) [R89]	ﾃｲｺｳ
85	0CWE70188F302	AA	DJ	N	C	Resistor (CRG10G302F) [R74,R95]	ﾃｲｺｳ
86	0CWE70205F332	AA	DJ	N	C	Resistor (CRG2G332F) [R108]	ﾃｲｺｳ
87	0CWE70188J222	AA	DJ		C	Resistor (CRG10GJ222T) [R84]	ﾃｲｺｳ
88	0CW71010J1038	AC	DD		C	Resistor (RGLD8X103J)(10KΩ X 8) [RA1,RA2]	ﾃｲｺｳｱﾚｰ
89	0CWE1200000368	AR	EQ		B	Dip switch (KSD05) [SW1]	ﾃﾞｨｯﾌﾟｽｲｯﾁ
90	0CWE76005A6R2	AE	DS		B	Diode (RD6.2FB) [ZD1]	ﾂｪﾅｰﾀﾞｲｵｰﾄﾞ
91	0CWE76008H120	AB	DD		B	Diode (RD12MB2) [ZD2]	ﾂｴﾅｰﾀﾞｲｵｰﾄﾞ
92	0CWE70188F223	AA	DJ		C	Resistor (CRG10G223F) [R78,R79]	ﾃｲｺｳ
93	0CWE70188F104	AA	DJ	N	C	Resistor (CRG10G104F) [R45,R46,R48]	ﾃｲｺｳ
94	0CWE70188F472	AA	DJ		C	Resistor (CRG10G472F) [R53,R54,R72,R73]	ﾃｲｺｳ
95	0CWE70188F152	AA	DJ		C	Resistor (CRG10G152F) [R63]	ﾃｲｺｳ
96	0CWE70188F103	AA	DJ		C	Resistor (CRG10G103F) [R6,R7]	ﾃｲｺｳ
97	0CW2223K203//	AZ	FX	N	B	EP ROM [IC2]	EPROMｸﾐ
	ﾕﾆｯﾄ (Unit)						
901	0CW2223K200//	CA	TV	N	E	PBA-Control PWB (SF-A57)	PBA-ｺﾝﾄﾛｰﾙｷﾊﾞﾝ

10 SF-A18 PBA-ｺﾝﾄﾛｰﾙ基板 (SF-A18 PBA-Control PWB)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	0CWE73423M106	AC	DJ		C	Capacitor (CESEM1E100-F) [C10]	ｺﾝﾃﾞﾝｻ
2	0CWE73303Z104	AB	DJ		C	Capacitor (GRM40F104Z25PT) [C35,C36,C38,C39,C42~C44,C47,C49,C50]	ｺﾝﾃﾞﾝｻ
3	0CWE73268J101	AF	DS		C	Capacitor (GRM40CH101J50PT) [C32]	ｺﾝﾃﾞﾝｻ
4	0CWE73303Z105	AD	DJ		C	Capacitor (GRM40F105Z16PT) [C41,C45,C48,C51,C52,C59~C62]	ｺﾝﾃﾞﾝｻ
5	0CWE73431M107	AF	DS		C	Capacitor (CEEFM1H101M5-F) [C53]	ｺﾝﾃﾞﾝｻ
6	0CWE73423M476	AC	DJ		C	Capacitor (CESEM1C470M-F) [C55]	ｺﾝﾃﾞﾝｻ
7	0CWE73423M475	AC	DJ		C	Capacitor (CESEM1H4R7-F) [C57]	ｺﾝﾃﾞﾝｻ
8	0CWE73303Z224	AC	DJ		C	Capacitor (GRM40F224Z50PT) [C56]	ｺﾝﾃﾞﾝｻ
9	0CWE74212WE06	AE	DJ		C	Connector (DF1B-6P-25DSA) [CN4]	ｺﾈｸﾀ
10	0CWE74212WE09	AE	DS		C	Connector (DF1B-9P-25DSA) [CN5]	ｺﾈｸﾀ
11	0CWE323000305	AP	EQ		B	IC (ST93C46CM1) [IC3]	IC
12	0CWE321000645	BB	GD		B	IC (STK6713BMK4) [IC8]	IC
13	0CWE312001362	AC	DJ		B	Transistor (FN1L3M) [Q12]	ﾄﾗﾝｼﾞｽﾀ
14	0CWE312001293	AR	EQ		B	FET (2SJ265) [Q13]	ﾄﾗﾝｼﾞｽﾀ
15	0CWE312001368	AK	DX		B	FET (2SK1282-Z) [Q15]	ﾄﾗﾝｼﾞｽﾀ
16	0CWE70162F101	AA	DJ	N	C	Resistor (CRG8SG101F) [R93,R94]	ﾃｲｺｳ
17	0CWE70162J181	AA	DJ		C	Resistor (CRG8SG181J) [R100,R101,R102]	ﾃｲｺｳ
18	0CWE70188J203	AA	DJ		C	Resistor (CRG10G203J) [R105]	ﾃｲｺｳ
19	0CWE70162J202	AA	DJ		C	Resistor (CRG8SG202J) [R106]	ﾃｲｺｳ
20	0CWE70162J100	AA	DJ		C	Resistor (CRG8SG100J) [R118]	ﾃｲｺｳ
21	0CWE70188J154	AA	DJ		C	Resistor (CRG10G154J) [R47]	ﾃｲｺｳ
22	0CWE70213JR39	AC	DJ		C	Resistor (RSSX1U039Ω J) [R97~R99]	ﾃｲｺｳ
23	0CWE70188F751	AA	DJ		C	Resistor (CRG10G751F) [R67]	ﾃｲｺｳ
24	0CWE70162J472	AA	DJ		C	Resistor (CRG8SG472J) [R7]	ﾃｲｺｳ
25	0CWE70188F243	AA	DJ		C	Resistor (CRG10G243F) [R39]	ﾃｲｺｳ
26	0CWE70188F683	AA	DJ		C	Resistor (CRG10G683F) [R113]	ﾃｲｺｳ
27	0CWE70188F912	AA	DJ		C	Resistor (CRG10G912F) [R66]	ﾃｲｺｳ
28	0CWE420001011	AC	DJ		C	Test pin (LC-3-SBK) [TP2]	ﾃｽﾄﾋﾟﾝ
29	0CWE76008H160	AD	DJ		B	Diode (RD16MB2) [ZD3]	ﾀﾞｲｵｰﾄﾞ
30	0CWE76008G180	AD	DJ		B	Diode (RD18MB1) [ZD6,ZD7]	ﾀﾞｲｵｰﾄﾞ
31	0CW73425M107E	AC	DJ		C	Capacitor (CEDSM1E101M-F) [C1]	ｺﾝﾃﾞﾝｻｰ
32	0CW73328K102H	AA	DD		C	Capacitor (0.01μ F/50V) [C2~C7]	ｾﾗﾐｯｸｺﾝﾃﾞﾝｻｰ
33	0CW73303Z334C	AD	DJ		C	Capacitor (GRM40F334Z16PT) [C9]	ｺﾝﾃﾞﾝｻｰ
34	0CW73328K103H	AA	DD		C	Capacitor (GRM40B103K50PT) [C12,C13,C15,C18,C20,C21,C23]	ｺﾝﾃﾞﾝｻｰ
35	0CW73328K332H	AA	DD		C	Capacitor (GRM40B332K50PT) [C24]	ｺﾝﾃﾞﾝｻｰ
36	0CW73303Z104H	AB	DD		C	Capacitor (GRM40F104Z50PT) [C14,C19,C25,C28~C30]	ｺﾝﾃﾞﾝｻｰ
37	0CW73425M476V	AC	DJ		C	Capacitor (CEDSM1V470-F) [C31,C11]	ｺﾝﾃﾞﾝｻｰ
38	0CW73423M105H	AC	DJ		C	Capacitor (CESEM1H10-F) [C34,C58]	ｺﾝﾃﾞﾝｻｰ
39	0CWE74299BK06	AB	DD		C	Connector (DF3-6P-2DSA) [CN8]	ｺﾈｸﾀｰ
40	0CWE74340WE09	AE	DJ		C	Connector (173981-9) [CN2]	ｺﾈｸﾀｰ
41	0CWE74291WE04	AC	DJ		C	Connector (53258-0420) [CN6]	ｺﾈｸﾀｰ
42	0CWE74340WE10	AE	DS		C	Connector (1-173981-0) [CN3]	ｺﾈｸﾀｰ
43	0CWE74340WE12	AF	DS		C	Connector (1-173981-2) [CN1]	ｺﾈｸﾀｰ
44	0CWE74340WE06	AD	DJ		C	Connector (173981-6J) [CN7]	ｺﾈｸﾀｰ
45	0CWE311000978	AD	DJ		B	Diode (SB02-03Q) [D1~D3]	ﾀﾞｲｵｰﾄﾞ
46	0CWE311000977	AB	DD		B	Diode (DSA010) [D6]	ﾀﾞｲｵｰﾄﾞ
47	0CWE311001020	AE	DS		B	Diode (SS14) [D7]	ﾀﾞｲｵｰﾄﾞ

10 SF-A18 PBA-ｺﾝﾄﾛｰﾙ基板 (SF-A18 PBA-Control PWB)

NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION		
48	0CWE311001019	AD	DJ		B	Diode (S1G-G11)	[D9,D10]	ﾀﾞｲｵｰﾄﾞ
49	0CWE77002373A	AL	EB		B	IC (TC74HC373AF)	[IC1]	IC
50	0CWE74269BK28	AD	DJ		C	IC socket (2-641605-3)	[for IC2]	ICｿｹｯﾄ
51	0CWE7700214A／	AG	DX		B	IC (TC74HC14AF)	[IC4]	IC
52	0CWE7702006／／	AG	DS		B	IC (HD74LS06PF)	[IC5]	IC
53	0CWE321000320	AK	DX		B	IC (M51953BFP)	[IC6]	IC
54	0CW2198P422／／	AY	FQ	N	B	LSI (LSI-LC93043A-V54)	[IC7]	LSI
55	0CWE321000358	AG	DX		B	IC (UPC339G2)	[IC9]	IC
56	0CWE321000650	BB	GD		B	IC (STK681-050)	[IC10]	IC
57	0CWE323000280	BC	GJ		B	IC (uPD78233GC-3B9)	[IC11]	IC
58	0CWE321000646	AG	DS	N	B	IC (LA6358NM)	[IC13]	IC
59	0CWE230000031	AK	DX		B	Coil (SK-8MS-5Y)	[L1,L2]	ｺｲﾙ
60	0CWE314000337	AB	DD		B	LED (GL3PR8)	[LED1]	LED
61	0CWE2500000107	AX	FX		B	Oscillator (CST9.83MTW)	[OSC1]	ｸﾘｽﾀﾙ
62	0CWE250000141	AG	DX		B	Oscillator (CST5.0MGW040)	[OSC2]	ｸﾘｽﾀﾙ
63	0CWE120000897	AD	DJ		B	Push switch (SKHHPK)	[PSW1]	ﾌﾟｯｼｭｽｲｯﾁ
64	0CWE312001240	AC	DD		B	Transistor (FN1L3N)	[Q1,Q2]	ﾄﾗﾝｼﾞｽﾀｰ
65	0CWE312000082	AC	DJ		B	Transistor (2SC2712)	[Q3~Q5]	ﾄﾗﾝｼﾞｽﾀｰ
66	0CWE312001081	AB	DD		B	Transistor (FA1L3N)	[Q7~Q11]	ﾃﾞｼﾞﾀﾙﾄﾗﾝｼﾞｽﾀｰ
67	0CWE70188J223	AA	DJ		C	Resistor (CRG10GJ223J)	[R1~R5]	ﾃｲｺｳ
68	0CWE70188J103	AA	DJ		C	Resistor (CRG10G103J)	[R8~R13,R16,R17,R20~R28,R30, R33~R38,R41~R43,R87,R119,R120]	ﾃｲｺｳ
69	0CWE312001090	AE	DS	N	B	Transistor (RN1427)	[Q16]	ﾄﾗﾝｼﾞｽﾀｰ
70	0CWE70188J104	AA	DJ		C	Resistor (CRG10G104J)	[R49]	ﾃｲｺｳ
71	0CWE70188J100	AA	DJ		C	Resistor (CRG10G100J)	[R50]	ﾃｲｺｳ
72	0CWE70188J472	AA	DJ		C	Resistor (CRG10G472J)	[R15,R51,R52,R55~R60,R62,R65,R68,R71,R77]	ﾃｲｺｳ
73	0CWE70188J102	AA	DJ		C	Resistor (CRG10G102J)	[R14,R61,R82,R83]	ﾃｲｺｳ
74	0CWE70188J105	AA	DJ		C	Resistor (CRG10G105J)	[R76,R90]	ﾃｲｺｳ
75	0CWE70188J821	AA	DJ		C	Resistor (CRG10G821J)	[R91]	ﾃｲｺｳ
76	0CWE70197J4R7	AA	DJ		C	Resistor (ERD25FAJ4R7)	[R6,R92]	ﾃｲｺｳ
77	0CWE70188F202	AA	DJ	N	C	Resistor (CRG10G202F)	[R80,R81]	ﾃｲｺｳ
78	0CWE70188J153	AA	DJ		C	Resistor (CRG10G153J)	[R29,R115,R117]	ﾃｲｺｳ
79	0CWE70188J152	AA	DJ		C	Resistor (CRG10G152J)	[R121]	ﾃｲｺｳ
80	0CWE70188F302	AA	DJ	N	C	Resistor (CRG10G302F)	[R95]	ﾃｲｺｳ
81	0CWE70205F332	AA	DJ	N	C	Resistor (CRG2G332F)	[R108]	ﾃｲｺｳ
82	0CWE70188J222	AA	DJ		C	Resistor (CRG10GJ222T)	[R84]	ﾃｲｺｳ
83	0CW71010J1038	AC	DD		C	Resistor (RGLD8X103J)(10KΩ × 8)	[RA1,RA2]	ﾃｲｺｳｱﾚｰ
84	0CWE120000368	AR	EQ		B	Dip switch (KSD05)	[SW1]	ﾃﾞｨｯﾌﾟｽｲｯﾁ
85	0CWE76005A6R2	AE	DS		B	Diode (RD6.2FB)	[ZD1]	ﾂｪﾅｰﾀﾞｲｵｰﾄﾞ
86	0CWE76008H120	AB	DD		B	Diode (RD12MB2)	[ZD2]	ﾂｴﾅｰﾀﾞｲｵｰﾄﾞ
87	0CWE70188F223	AA	DJ		C	Resistor (CRG10G223F)	[R78,R79]	ﾃｲｺｳ
88	0CWE70188F104	AA	DJ	N	C	Resistor (CRG10G104F)	[R45,R46]	ﾃｲｺｳ
89	0CWE70188F203	AA	DJ		C	Resistor (CRG10G203J)	[R116]	ﾃｲｺｳ
90	0CWE70188F472	AA	DJ		C	Resistor (CRG10G472F)	[R53,R54]	ﾃｲｺｳ
91	0CW2224K203／／	AZ	FX	N	B	EP ROM	[IC2]	EPROMｸﾐ
	ﾕﾆｯﾄ (Unit)							
901	0CW2224K200／／	CB	TZ	N	E	PBA-Control PWB	(SF-A18)	PB-Aｺﾝﾄﾛｰﾙｷﾊﾞﾝ

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PARTS CODE	NO.	PRICE R. Ex.	PRICE R. Ja.	NEW	P/R	
【P】						
PCŌVP0911FCZZ	8- 1	AB	DD		D	
PCŌVP0941FCZZ	8- 2	AB	DD		D	
【X】						
XRESP20-04000	1- 39	AA	DD		C	
〃	6- 18	AA	DD		C	
XRESP30-05000	3- 61	AA	DD		C	
〃	4- 44	AA	DD		C	
XRESP40-06000	4- 49	AA	DD		C	
XRESP50-06000	3- 46	AA	DD		C	
〃	5- 43	AA	DD		C	
〃	6- 15	AA	DD		C	
XRESP70-08000	2- 18	AA	DD		C	
〃	3- 49	AA	DD		C	
〃	5- 36	AA	DD		C	
XRESP80-09000	3- 54	AA	DD		C	
【0】						
0CWE120000368	9- 89	AR	EQ		B	
〃	10- 84	AR	EQ		B	
0CWE120000870	1- 13	AM	EG		B	
〃	3- 37	AM	EG		B	
〃	5- 19	AM	EG		B	
0CWE120000897	9- 68	AD	DJ		B	
〃	10- 63	AD	DJ		B	
0CWE230000031	9- 64	AK	DX		B	
〃	10- 59	AK	DX		B	
0CWE240000309	1- 67	AP	EQ	N	B	
0CWE250000107	9- 66	AX	FX		B	
〃	10- 61	AX	FX		B	
0CWE250000141	9- 67	AG	DX		B	
〃	10- 62	AG	DX		B	
0CWE311000977	9- 51	AB	DD		B	
〃	10- 46	AB	DD		B	
0CWE311000978	9- 50	AD	DJ		B	
〃	10- 45	AD	DJ		B	
0CWE311001019	9- 53	AD	DJ		B	
〃	10- 48	AD	DJ		B	
0CWE311001020	9- 52	AE	DS		B	
〃	10- 47	AE	DS		B	
0CWE312000082	9- 70	AC	DJ		B	
〃	10- 65	AC	DJ		B	
0CWE312001081	9- 71	AB	DD		B	
〃	10- 66	AB	DD		B	
0CWE312001090	10- 69	AE	DS	N	B	
0CWE312001240	9- 69	AC	DD		B	
〃	10- 64	AC	DD		B	
0CWE312001293	9- 16	AR	EQ		B	
〃	10- 14	AR	EQ		B	
0CWE312001310	9- 18	AC	DJ		B	
0CWE312001362	9- 15	AC	DJ		B	
〃	10- 13	AC	DJ		B	
0CWE312001363	9- 72	AG	DX		B	
0CWE312001368	9- 17	AK	DX		B	
〃	10- 15	AK	DX		B	
0CWE314000120	7- 10	AM	EG		B	
0CWE314000336	7- 9	AR	EQ		B	
0CWE314000337	9- 65	AB	DD		B	
〃	10- 60	AB	DD		B	
0CWE314000528	4- 6	AL	EB		B	
〃	6- 21	AL	EB		B	
0CWE314000531	3- 11	AN	EG		B	
0CWE321000320	9- 58	AK	DX		B	
〃	10- 53	AK	DX		B	
0CWE321000358	9- 60	AG	DX		B	
〃	10- 55	AG	DX		B	
0CWE321000644	9- 14	AZ	FQ		B	
0CWE321000645	9- 13	BB	GD		B	
〃	10- 12	BB	GD		B	
0CWE321000646	9- 63	AG	DS	N	B	
〃	10- 58	AG	DS	N	B	
0CWE321000650	9- 61	BB	GD		B	
〃	10- 56	BB	GD		B	
0CWE323000280	9- 62	BC	GJ		B	
〃	10- 57	BC	GJ		B	
0CWE323000305	9- 12	AP	EQ		B	
〃	10- 11	AP	EQ		B	
0CWE420001011	9- 33	AC	DJ		C	
〃	10- 28	AC	DJ		C	
0CWE450000005	6- 20	AA	DD		C	
0CWE450000067	7- 21	AC	DJ		C	

PARTS CODE	NO.	PRICE R. Ex.	PRICE R. Ja.	NEW	P/R	
0CWE450000070	1- 6	AB	DJ		C	
0CWE450000071	1- 25	AC	DJ		C	
0CWE450000368	1- 24	AD	DJ		C	
〃	7- 8	AD	DJ		C	
0CWE450000433	1- 4	AB	DD		C	
〃	4- 11	AB	DD		C	
0CWE450000574	4- 61	AC	DJ		C	
〃	5- 2	AC	DJ		C	
0CWE450000842	5- 9	AC	DJ		C	
0CWE450000871	3- 22	AB	DJ		C	
〃	4- 30	AB	DJ		C	
〃	5- 7	AB	DJ		C	
〃	6- 10	AB	DJ		C	
0CWE450000896	4- 4	AC	DJ		C	
〃	5- 10	AC	DJ		C	
0CWE450000897	3- 8	AC	DJ		C	
〃	4- 28	AC	DJ		C	
0CWE70162F101	9- 19	AA	DJ	N	C	
〃	10- 16	AA	DJ	N	C	
0CWE70162J100	9- 23	AA	DJ		C	
〃	10- 20	AA	DJ		C	
0CWE70162J181	9- 20	AA	DJ		C	
〃	10- 17	AA	DJ		C	
0CWE70162J202	9- 22	AA	DJ		C	
〃	10- 19	AA	DJ		C	
0CWE70162J472	9- 27	AA	DJ		C	
〃	10- 24	AA	DJ		C	
0CWE70188F103	9- 96	AA	DJ		C	
0CWE70188F104	9- 93	AA	DJ	N	C	
〃	10- 88	AA	DJ	N	C	
0CWE70188F152	9- 95	AA	DJ		C	
0CWE70188F153	9- 32	AA	DJ		C	
0CWE70188F202	9- 82	AA	DJ	N	C	
〃	10- 77	AA	DJ	N	C	
0CWE70188F203	10- 89	AA	DJ		C	
0CWE70188F223	9- 92	AA	DJ		C	
〃	10- 87	AA	DJ		C	
0CWE70188F243	9- 29	AA	DJ		C	
〃	10- 25	AA	DJ		C	
0CWE70188F302	9- 85	AA	DJ	N	C	
〃	10- 80	AA	DJ	N	C	
0CWE70188F472	9- 94	AA	DJ		C	
〃	10- 90	AA	DJ		C	
0CWE70188F683	9- 30	AA	DJ		C	
〃	10- 26	AA	DJ		C	
0CWE70188F751	9- 26	AA	DJ		C	
〃	10- 23	AA	DJ		C	
0CWE70188F912	9- 31	AA	DJ		C	
〃	10- 27	AA	DJ		C	
0CWE70188J100	9- 76	AA	DJ		C	
〃	10- 71	AA	DJ		C	
0CWE70188J102	9- 78	AA	DJ		C	
〃	10- 73	AA	DJ		C	
0CWE70188J103	9- 74	AA	DJ		C	
〃	10- 68	AA	DJ		C	
0CWE70188J104	9- 75	AA	DJ		C	
〃	10- 70	AA	DJ		C	
0CWE70188J105	9- 79	AA	DJ		C	
〃	10- 74	AA	DJ		C	
0CWE70188J152	9- 84	AA	DJ		C	
〃	10- 79	AA	DJ		C	
0CWE70188J153	9- 83	AA	DJ		C	
〃	10- 78	AA	DJ		C	
0CWE70188J154	9- 24	AA	DJ		C	
〃	10- 21	AA	DJ		C	
0CWE70188J203	9- 21	AA	DJ		C	
〃	10- 18	AA	DJ		C	
0CWE70188J222	9- 87	AA	DJ		C	
〃	10- 82	AA	DJ		C	
0CWE70188J223	9- 73	AA	DJ		C	
〃	10- 67	AA	DJ		C	
0CWE70188J472	9- 77	AA	DJ		C	
〃	10- 72	AA	DJ		C	
0CWE70188J821	9- 80	AA	DJ		C	
〃	10- 75	AA	DJ		C	
0CWE70197J4R7	9- 81	AA	DJ		C	
〃	10- 76	AA	DJ		C	
0CWE70205F222	9- 28	AC	DJ	N	C	
0CWE70205F332	9- 86	AA	DJ	N	C	
〃	10- 81	AA	DJ	N	C	

PARTS CODE	NO.	PRICE R. Ex.	PRICE R. Ja.	NEW	P/R	
0CWE70213JR39	9- 25	AC	DJ		C	
〃	10- 22	AC	DJ		C	
0CWE73268J101	9- 3	AF	DS		C	
〃	10- 3	AF	DS		C	
0CWE73303Z104	9- 2	AB	DJ		C	
〃	10- 2	AB	DJ		C	
0CWE73303Z105	9- 4	AD	DJ		C	
〃	10- 4	AD	DJ		C	
0CWE73303Z224	9- 8	AC	DJ		C	
〃	10- 8	AC	DJ		C	
0CWE73423M106	9- 1	AC	DJ		C	
〃	10- 1	AC	DJ		C	
0CWE73423M475	9- 7	AC	DJ		C	
〃	10- 7	AC	DJ		C	
0CWE73423M476	9- 6	AC	DJ		C	
〃	10- 6	AC	DJ		C	
0CWE73431M107	9- 5	AF	DS		C	
〃	10- 5	AF	DS		C	
0CWE74212WE06	9- 9	AE	DJ		C	
〃	10- 9	AE	DJ		C	
0CWE74212WE08	9- 10	AE	DJ		C	
0CWE74212WE09	9- 11	AE	DS		C	
〃	10- 10	AE	DS		C	
0CWE74269BK28	9- 55	AD	DJ		C	
〃	10- 50	AD	DJ		C	
0CWE74291WE04	9- 46	AC	DJ		C	
〃	10- 41	AC	DJ		C	
0CWE74299BK06	9- 44	AB	DD		C	
〃	10- 39	AB	DD		C	
0CWE74340WE06	10- 44	AD	DJ		C	
0CWE74340WE08	9- 49	AE	DJ		C	
0CWE74340WE09	9- 45	AE	DJ		C	
〃	10- 40	AE	DJ		C	
0CWE74340WE10	9- 47	AE	DS		C	
〃	10- 42	AE	DS		C	
0CWE74340WE12	9- 48	AF	DS		C	
〃	10- 43	AF	DS		C	
0CWE76005A6R2	9- 90	AE	DS		B	
〃	10- 85	AE	DS		B	
0CWE76008G180	9- 35	AD	DJ		B	
〃	10- 30	AD	DJ		B	
0CWE76008H120	9- 91	AB	DD		B	
〃	10- 86	AB	DD		B	
0CWE76008H160	9- 34	AD	DJ		B	
〃	10- 29	AD	DJ		B	
0CWE7700214A/	9- 56	AG	DX		B	
〃	10- 51	AG	DX		B	
0CWE77002373A	9- 54	AL	EB		B	
〃	10- 49	AL	EB		B	
0CWE7702006//	9- 57	AG	DS		B	
〃	10- 52	AG	DS		B	
0CWKW040FZ///	1- 70	AA	DD		C	
0CWPW050025//	6- 26	AB	DJ	N	C	
0CWY000730///	3- 5	BQ	LP	N	B	
0CWZ0030WE004	2- 42	AC	DJ	N	C	
0CW020050FZSA	4- 84	AB	DJ		C	
0CW020060SCH/	3- 60	AB	DD		C	
0CW020100SCH/	5- 45	AA	DD		C	
0CW020120SCH/	3- 50	AA	DD		C	
0CW020140SCH/	3- 57	AB	DD		C	
0CW023100FZNS	1- 42	AA	DJ		C	
0CW023120FBWS	3- 80	AB	DJ	N	C	
〃	5- 63	AB	DJ	N	C	
0CW030030FZiT	3- 81	AB	DJ		C	
0CW030040FZBi	4- 41	AA	DD		C	
0CW030040FZiT	4- 47	AA	DD		C	
0CW030040FZWS	4- 38	AA	DD		C	
0CW030050FZSW	5- 52	AB	DJ		C	
0CW030060FBBi	6- 19	AA	DD		C	
0CW030060FNBi	4- 43	AA	DJ		C	
〃	6- 17	AA	DJ		C	
〃	7- 18	AA	DJ		C	
0CW030060FNTP	2- 19	AB	DJ		C	
0CW030060FZBi	4- 34	AA	DD		C	
〃	5- 34	AA	DD		C	
0CW030060FZBP	4- 37	AA	DD		C	
〃	5- 50	AA	DD		C	
0CW030060FZiT	2- 41	AA	DD		C	
〃	3- 67	AA	DD		C	
0CW030060FZSW	2- 15	AA	DD		C	

PARTS CODE	NO.	PRICE R. Ex.	PRICE R. Ja.	NEW	P/R	
0CW030060FZSW	5- 35	AA	DD		C	
0CW030060FZTP	1- 34	AA	DD		C	
〃	2- 17	AA	DD		C	
〃	3- 63	AA	DD		C	
〃	4- 40	AA	DD		C	
〃	5- 40	AA	DD		C	
0CW030060FZWS	1- 38	AA	DD		C	
〃	2- 22	AA	DD		C	
0CW030080FBBB	1- 46	AB	DJ		C	
0CW030080FPWP	3- 65	AB	DJ		C	
0CW030080FZBB	4- 33	AB	DJ		C	
〃	5- 59	AB	DJ		C	
〃	7- 15	AB	DJ		C	
0CW030080FZTP	2- 19	AA	DD		C	
0CW030080FZWS	2- 20	AA	DD		C	
〃	3- 71	AA	DD		C	
0CW030100FBBB	1- 48	AB	DJ		C	
〃	7- 20	AB	DJ		C	
0CW030100FPA/	3- 62	AA	DD		C	
0CW030100FZBi	4- 42	AA	DD		C	
0CW040040FZiT	1- 33	AA	DD		C	
0CW040060FNBi	1- 37	AA	DD		C	
0CW040060FPWP	1- 41	AA	DD		C	
0CW040060FZBP	3- 77	AB	DJ		C	
0CW040060FZTP	1- 32	AA	DD		C	
0CW040060FZWS	1- 63	AA	DD		C	
0CW040080FNBi	1- 35	AA	DD		C	
〃	8- 3	AA	DD		C	
0CW040080FZBi	1- 40	AA	DD		C	
〃	5- 48	AA	DD		C	
0CW040100FPWP	5- 55	AC	DJ		C	
0CW040300FZWS	5- 73	AC	DJ	N	C	
〃	6- 30	AC	DJ	N	C	
0CW050120FNBi	8- 4	AB	DJ		C	
0CW1001P441//	3- 51	AG	DX	N	C	
0CW2078P023B/	2- 21	AC	DJ		C	
〃	3- 52	AC	DJ		C	
〃	4- 39	AC	DJ		C	
〃	5- 38	AC	DJ		C	
〃	6- 24	AC	DJ		C	
0CW2078P086B/	4- 46	AB	DD		C	
〃	5- 51	AB	DD		C	
0CW2078P119B/	4- 70	AB	DD		C	
0CW2078P652//	3- 82	AE	DS		C	
0CW2088P034//	3- 83	AK	EB		C	
0CW2094P090A/	5- 47	AH	DX		C	
0CW2095P053//	1- 50	AE	DJ		C	
0CW2095P310//	3- 84	AD	DJ		C	
0CW2106P091A/	1- 36	AB	DD		C	
0CW2107P032//	5- 54	AN	EG		C	
0CW2129P188//	3- 89	AD	DJ	N	C	
0CW2142P037//	3- 79	AS	EQ		C	
0CW2142P180B/	7- 17	AD	DJ		C	
0CW2144P409//	1- 69	AB	DJ	N	C	
0CW2147P033A/	5- 44	AC	DD		C	
0CW2158P003C/	1- 53	AE	DS		C	
〃	3- 58	AE	DS		C	
〃	5- 39	AE	DS		C	
0CW2158P005A/	5- 42	AD	DJ		C	
0CW2158P009A/	5- 41	AD	DJ		C	
0CW2158P030//	4- 88	AG	DS	N	C	
0CW2158P035A/	2- 34	AD	DJ		C	
0CW2158P328B/	8- 5	AF	DS		C	
0CW2158P348//	4- 90	AE	DS	N	C	
0CW2158P354//	7- 22	AD	DJ	N	C	
0CW2158P377//	3- 69	AB	DJ		C	
〃	4- 36	AB	DJ		C	
0CW2158P504//	1- 62	AK	EB	N	C	
0CW2158P521//	3- 53	AE	DJ		C	
〃	5- 46	AE	DJ		C	
〃	6- 16	AE	DJ		C	
0CW2160P018//	3- 86	AK	DX		C	
0CW2160P344A/	2- 29	AN	EQ		B	
0CW2164P142A/	2- 27	AE	DS		C	
0CW2166P034B/	3- 55	AC	DJ		C	
0CW2166P265//	1- 52	AF	DS		C	
0CW2168P010//	1- 55	AF	DS		C	
0CW2168P029//	3- 75	AF	DS		C	
0CW2168P030//	3- 78	AG	DX		C	
0CW2185P023//	2- 30	AE	DS		B	

PARTS CODE	NO.	PRICE R.		NEW	P/R	
		Ex.	Ja.			
0CW2185P358//	1- 47	AB	DJ	N	C	
0CW2185P359//	1- 45	AB	DJ		C	
0CW2198P003//	3- 66	AH	DX		C	
0CW2198P302//	4- 45	AD	DJ		C	
0CW2198P360//	7- 23	AR	EQ		D	
0CW2198P422//	9- 59	AY	FQ	N	B	
〃	10- 54	AY	FQ	N	B	
0CW2199P017//	7- 19	AH	DX		C	
0CW2199P034//	1- 73	AK	EB	N	C	
0CW2199P117//	7- 16	AE	DS		C	
0CW2199P368//	4- 35	AD	DJ		C	
0CW2205P017//	6- 25	AF	DS		C	
0CW2205P025//	2- 36	AD	DJ		C	
0CW2205P035//	4- 82	AF	DS		C	
0CW2205P037//	2- 35	AE	DJ		C	
0CW2205P042//	1- 68	AD	DJ	N	C	
0CW2205P050//	4- 72	AD	DJ		C	
0CW2205P051//	4- 80	AE	DJ		B	
0CW2205P052//	4- 78	AE	DJ		C	
0CW2205P147//	2- 37	AC	DJ		C	
〃	2- 38	AC	DJ		C	
0CW2205P152//	4- 85	AK	EB		C	
0CW2205P153//	4- 73	AF	DS		C	
0CW2205P351//	2- 33	AU	EZ		C	
0CW2205P360//	2- 26	AD	DJ		C	
0CW2214K002//	5- 18	AW	FG		C	
0CW2214K004//	5- 5	AR	EQ		C	
0CW2214K021//	1- 17	BF	GN		E	
0CW2214K022//	1- 3	BF	GN		E	
0CW2214K027//	3- 45	AX	FG		C	
〃	4- 27	AX	FG		C	
0CW2214K032//	4- 15	AK	EB		C	
0CW2214K033//	3- 42	AL	EB		C	
0CW2214K054//	1- 8	AH	DX		C	
0CW2214K058//	8- 6	BB	GD		D	
0CW2214K101//	3- 85	AL	EB		C	
0CW2214K113//	8- 101	AD	DJ	N	C	
0CW2214K114//	1- 1	BS	MJ		E	
0CW2214K200//	1- 20	AP	EQ		C	
0CW2214K201//	4- 2	AP	EQ		C	
0CW2214K202//	7- 7	AT	EZ		C	
0CW2214K203//	1- 21	AN	EG		C	
0CW2214K204//	3- 4	AH	DX		C	
0CW2214K205//	1- 30	AL	EB		C	
0CW2214K206//	1- 22	AN	EG		C	
0CW2214K207//	4- 32	AM	EG		C	
0CW2214K208//	1- 19	AS	EQ		C	
0CW2214K209//	3- 2	AR	EQ		C	
0CW2214K213//	7- 5	AX	FG		C	
0CW2214K214//	4- 14	AG	DX		C	
0CW2214K216//	3- 32	AH	DX		C	
0CW2214K222//	5- 24	AS	EQ		E	
0CW2214K223//	1- 31	AU	EZ		E	
0CW2214K224//	4- 12	AS	EQ		E	
0CW2214P002//	7- 13	AK	DX		C	
0CW2214P003//	7- 14	AK	DX		C	
0CW2214P004//	7- 3	AF	DS		C	
0CW2214P005//	7- 2	AG	DS		C	
0CW2214P006//	4- 5	AY	FQ		C	
0CW2214P007//	3- 18	AT	EZ		C	
0CW2214P008//	4- 21	BA	FX		C	
0CW2214P009//	4- 18	AX	FG		C	
0CW2214P010//	4- 26	AV	FG		C	
0CW2214P011//	5- 30	AQ	EQ		C	
0CW2214P012//	5- 25	AR	EQ		C	
0CW2214P015//	5- 26	AX	FG		C	
0CW2214P016//	7- 1	AZ	FX		C	
0CW2214P017//	7- 11	BA	FX		C	
0CW2214P019//	3- 16	AP	EQ		C	
0CW2214P020//	3- 17	AE	DJ		C	
0CW2214P021//	3- 23	AE	DJ		C	
0CW2214P022//	3- 29	AE	DJ		C	
0CW2214P023//	3- 20	AE	DJ		C	
0CW2214P030//	4- 17	AE	DJ		C	
0CW2214P031//	3- 41	AF	DS		C	
0CW2214P032//	3- 44	AF	DS		C	
0CW2214P033//	5- 28	AE	DJ		C	
0CW2214P034//	4- 20	AU	FG		C	
0CW2214P035C/	4- 23	AF	DS		C	
0CW2214P036//	3- 21	AE	DS		C	

PARTS CODE	NO.	PRICE R.		NEW	P/R	
		Ex.	Ja.			
0CW2214P037//	3- 1	AH	DX		C	
0CW2214P038//	5- 23	AE	DJ		C	
0CW2214P039//	7- 4	AG	DS		C	
0CW2214P040//	1- 23	AM	EG		D	
0CW2214P041//	2- 8	AF	DS		C	
0CW2214P042//	2- 6	AD	DJ		C	
0CW2214P043//	2- 3	AD	DJ		C	
0CW2214P044//	2- 4	AF	DS		C	
0CW2214P045//	7- 24	AL	EB	N	C	
0CW2214P046//	5- 67	AE	DS		C	
0CW2214P047//	4- 76	AG	DS		C	
0CW2214P048//	4- 74	AG	DS		C	
0CW2214P051//	2- 28	AD	DJ		C	
0CW2214P052//	4- 76	AR	EQ		C	
0CW2214P101//	3- 25	AE	DJ		C	
0CW2214P102//	4- 1	AE	DJ		C	
0CW2214P103//	4- 29	AD	DJ		C	
〃	5- 66	AD	DJ		C	
0CW2214P104//	3- 28	AR	EQ		C	
〃	4- 10	AR	EQ		C	
0CW2214P108//	3- 6	AT	EZ		C	
0CW2214P109//	3- 12	AE	DS		C	
0CW2214P110//	1- 10	AL	EB		C	
0CW2214P111//	2- 2	AS	EQ		C	
0CW2214P112//	2- 13	AW	FG		C	
0CW2214P113//	5- 1	AF	DS		C	
0CW2214P114//	2- 1	AK	DX		C	
0CW2214P116//	1- 29	AE	DJ		C	
0CW2214P117//	1- 15	AF	DS		C	
0CW2214P118//	2- 10	AM	EG		C	
0CW2214P119//	1- 5	AH	DX		C	
0CW2214P120//	5- 11	AQ	EQ		C	
0CW2214P124//	5- 31	AE	DJ		C	
0CW2214P126//	1- 14	AG	DX		C	
0CW2214P127//	1- 2	AR	EQ		C	
0CW2214P128//	7- 6	AK	DX		C	
0CW2214P129//	7- 12	AF	DS		C	
0CW2214P130//	5- 29	AP	EQ		C	
0CW2214P131//	4- 8	AG	DX		C	
0CW2214P132//	4- 7	AM	EG		C	
0CW2214P134//	4- 13	AF	DS		C	
0CW2214P135//	1- 18	AE	DJ		C	
0CW2214P136//	1- 28	AG	DS		C	
0CW2214P138//	2- 5	AH	DX		C	
0CW2214P139//	2- 14	AH	DX		C	
0CW2214P140//	1- 26	AE	DJ		C	
0CW2214P141//	2- 9	AH	DX		C	
0CW2214P143//	5- 16	AP	EQ		C	
0CW2214P144//	4- 62	AF	DS		C	
0CW2214P146//	5- 65	AD	DJ		C	
0CW2214P149//	2- 43	AG	DX	N	C	
0CW2214P154//	4- 60	AH	DX		C	
0CW2214P155//	4- 9	AG	DX		C	
0CW2214P156//	4- 68	AN	EQ		C	
0CW2214P157//	2- 39	AK	DX		C	
0CW2214P200//	3- 33	AZ	FQ		C	
0CW2214P201//	3- 35	AV	FG		C	
0CW2214P205//	3- 15	AK	EB		C	
0CW2214P206//	3- 14	AP	EQ		C	
0CW2214P208//	5- 32	AD	DJ		C	
0CW2214P209//	5- 27	AE	DJ		C	
0CW2214P213//	4- 77	AK	EB		C	
0CW2214P300D/	3- 36	AU	FG		C	
0CW2214P301//	3- 31	BB	GD		C	
0CW2214P302//	3- 30	AX	FG		C	
0CW2214P303//	4- 22	AD	DJ		C	
0CW2214P306//	4- 25	AV	FG		B	
0CW2214P307//	4- 19	AD	DJ		C	
0CW2214P311//	4- 16	AF	DS		C	
0CW2214P312//	3- 27	AD	DJ		C	
0CW2214P313//	3- 26	AD	DJ		C	
0CW2214P314//	3- 19	AD	DJ		C	
0CW2214P315//	1- 11	AR	EQ		C	
0CW2214P316//	3- 7	AS	EQ		C	
0CW2214P317//	3- 38	AS	EQ		C	
0CW2214P318//	3- 39	AR	EQ		B	
0CW2214P319//	3- 13	AP	EQ		B	
0CW2214P320//	3- 40	AQ	EQ		B	
0CW2214P321//	2- 31	BB	GD		C	
0CW2214P322//	2- 12	BB	GD		C	

PARTS CODE	NO.	PRICE R. Ex.	PRICE R. Ja.	NEW	P/R	
0CW2214P323//	5- 13	AV	FG		C	
0CW2214P328//	5- 37	AS	EQ		C	
0CW2214P331//	5- 21	BD	GN		C	
0CW2214P332//	5- 20	AV	FG		C	
0CW2214P335//	5- 69	AD	DJ		C	
0CW2214P339//	3- 34	BA	FX		C	
0CW2214P340//	3- 10	AV	FG		C	
0CW2214P341//	3- 9	AP	EQ		C	
0CW2214P342//	3- 43	AS	EQ		C	
0CW2214P343//	4- 3	AE	DJ		C	
0CW2214P344//	4- 24	AE	DJ		C	
0CW2214P345//	3- 76	AH	DX		C	
0CW2214P346//	3- 88	AH	DX		C	
0CW2214P347//	5- 17	AD	DJ		C	
0CW2214P348//	5- 8	AX	FG		C	
0CW2214P349//	5- 6	AN	EQ		C	
0CW2214P350//	1- 9	AD	DJ		C	
0CW2214P352//	5- 33	AD	DJ		C	
0CW2214P353//	2- 7	BR	LX		B	
0CW2214P372//	4- 75	AH	DX		C	
0CW2214P375//	3- 87	AG	DS		C	
0CW2214P376//	4- 86	AH	DX		C	
0CW2214P377//	5- 15	AS	EZ		B	
0CW2214P379//	4- 58	AH	DX		C	
0CW2214P381//	5- 22	AD	DJ		C	
0CW2214P383//	5- 68	AE	DJ		C	
0CW2214P384//	8- 10	AP	EQ		D	
0CW2214P385//	7- 23	AN	EG		D	
0CW2214P387//	5- 71	AE	DS	N	C	
0CW2214P391//	4- 81	AG	DS		C	
0CW2214P392//	4- 83	AG	DS		C	
0CW2214P393//	2- 24	AG	DX		B	
〃	2- 25	AG	DX		B	
0CW2214P400//	1- 12	BQ	LP		B	
0CW2214P401//	5- 12	BH	HC		B	
0CW2214P402//	5- 3	AU	FG		B	
0CW2214P403//	3- 24	AY	FQ		B	
0CW2214P405//	3- 3	AD	DJ		C	
0CW2214P406//	4- 31	AD	DJ		C	
0CW2214P453//	1- 51	AD	DJ		C	
0CW2214P454//	4- 89	AD	DJ	N	C	
0CW2214P455//	4- 57	AE	DS		C	
〃	5- 53	AE	DS		C	
0CW2214P456//	3- 73	AG	DX		C	
0CW2214P457//	3- 74	AD	DJ		C	
0CW2214P458//	4- 59	AG	DX		C	
0CW2214P459//	5- 58	AD	DJ		C	
0CW2214P460//	5- 60	AD	DJ		C	
0CW2214P462//	2- 11	AZ	FQ		C	
0CW2214P464//	5- 57	AE	DJ		C	
0CW2214P465//	5- 72	AM	EG	N	C	
0CW2214P466//	5- 61	AG	DX		C	
0CW2214P469//	3- 72	AE	DJ		C	
0CW2214P470//	8- 7	AH	DX		D	
0CW2214P471//	3- 56	AQ	EQ		C	
0CW2214P472//	5- 64	AP	EQ		C	
0CW2214P474//	4- 79	AY	FQ		C	
0CW2214P475//	4- 55	AE	DJ		C	
0CW2214P477//	4- 54	AH	DX		C	
0CW2214P479//	7- 23	AR	EQ		C	
0CW2214P480//	7- 23	AL	EB		D	
0CW2214P482//	4- 63	AD	DJ		C	
0CW2214P483//	4- 65	AD	DJ		C	
0CW2214P484//	4- 64	AE	DS		C	
0CW2214P485//	4- 69	AD	DJ		C	
0CW2214P486//	4- 66	AD	DJ		C	
0CW2214P487//	4- 67	AF	DS		C	
0CW2214P489//	1- 60	AH	DX		C	
0CW2214P490//	1- 61	AG	DX		C	
0CW2214P491//	3- 76	AH	DX		C	
0CW2214P492//	3- 88	AH	DX		C	
0CW2214P493//	4- 87	AG	DS		C	
0CW2214P494//	4- 66	AD	DJ		C	
0CW2214P496//	1- 58	AE	DJ		C	
0CW2214P497//	1- 59	AE	DJ		C	
0CW2214P498//	1- 64	AE	DJ		C	
0CW2214P512//	1- 54	AG	DX		C	
0CW2214P513//	1- 16	AG	DS		C	
0CW2214P520//	2- 40	AU	EZ		C	
0CW2215K001//	6- 4	AL	EB		C	

PARTS CODE	NO.	PRICE R. Ex.	PRICE R. Ja.	NEW	P/R	
0CW2215K002//	6- 13	AK	DX		C	
0CW2215K031//	1- 17	BG	GT	N	E	
0CW2215K032//	1- 3	BF	GN	N	E	
0CW2215K050//	1- 1	BS	MW		E	
0CW2215K210//	6- 3	AG	DX		C	
0CW2215P002//	6- 7	AS	EQ		C	
0CW2215P003//	6- 9	AS	EQ		C	
0CW2215P004//	6- 12	AS	EQ		C	
0CW2215P005//	2- 32	AF	DS		C	
0CW2215P006//	6- 22	AE	DJ		C	
0CW2215P101//	6- 2	AN	EG		C	
0CW2215P106//	2- 37	AD	DJ		C	
0CW2215P300//	2- 31	BB	GD		C	
0CW2215P301//	6- 5	AG	DS		C	
0CW2215P302//	6- 1	AY	FQ		C	
0CW2215P303//	6- 8	AH	DX		C	
0CW2215P304//	6- 11	AE	DS		C	
0CW2215P334//	6- 29	AH	DX	N	C	
0CW2215P336//	2- 25	AF	DS		B	
0CW2215P337//	1- 57	AY	FQ		B	
0CW2221P336//	1- 56	AU	EZ	N	C	
〃	5- 56	AU	EZ	N	C	
0CW2223K200//	1- 27	CA	TV	N	E	
〃	9- 901	CA	TV	N	E	
0CW2223K203//	9- 97	AZ	FX	N	B	
0CW2223K210//	1- 7	BE	GN	N	C	
0CW2223K211//	5- 14	AN	EG	N	C	
0CW2223K212//	5- 70	AQ	EQ	N	C	
0CW2223K213//	1- 71	AM	EG	N	C	
0CW2223P101//	3- 90	AD	DJ	N	C	
0CW2223P300//	8- 12	BA	FX	N	D	
0CW2223P301//	8- 12	BA	FX	N	D	
0CW2223P307//	8- 8	AV	FG	N	D	
0CW2223P308//	8- 8	AH	DX	N	D	
0CW2223P309//	8- 8	AT	EZ	N	D	
0CW2223P318//	1- 49	AS	EQ	N	D	
0CW2223P319//	1- 49	AN	EG	N	D	
0CW2223P400//	1- 72	BY	TF	N	E	
0CW2223P401//	1- 72	BY	TF	N	E	
0CW2223P402//	5- 74	BA	FX	N	B	
〃	6- 31	BA	FX	N	B	
0CW2224K038//	6- 23	AX	FG	N	C	
0CW2224K200//	1- 27	CB	TZ	N	E	
〃	10- 901	CB	TZ	N	E	
0CW2224K203//	10- 91	AZ	FX	N	B	
0CW2224K210//	6- 6	AM	EG	N	C	
0CW2224P300//	8- 12	BA	FX	N	D	
0CW2224P301//	8- 12	BA	FX	N	D	
0CW319300////	3- 48	AD	DJ		C	
〃	5- 4	AD	DJ		C	
0CW338410////	5- 62	AE	DJ	N	B	
0CW338420////	3- 70	AC	DJ		B	
0CW338430////	3- 59	AD	DJ	N	B	
0CW4016P167A/	1- 44	AA	DJ		C	
〃	2- 16	AA	DJ		C	
〃	3- 68	AA	DJ		C	
〃	4- 48	AA	DJ		C	
〃	5- 49	AA	DJ		C	
0CW650590////	2- 23	AU	EZ	N	B	
0CW690380////	3- 47	AG	DS	N	B	
0CW71010J1038	9- 88	AC	DD		C	
〃	10- 83	AC	DD		C	
0CW73303Z104H	9- 41	AB	DD		C	
〃	10- 36	AB	DD		C	
0CW73303Z334C	9- 38	AD	DJ		C	
〃	10- 33	AD	DJ		C	
0CW73328K102H	9- 37	AA	DD		C	
〃	10- 32	AA	DD		C	
0CW73328K103H	9- 39	AA	DD		C	
〃	10- 34	AA	DD		C	
0CW73328K332H	9- 40	AA	DD		C	
〃	10- 35	AA	DD		C	
0CW73423M105H	9- 43	AC	DJ		C	
〃	10- 38	AC	DJ		C	
0CW73425M107E	9- 36	AC	DJ		C	
〃	10- 31	AC	DJ		C	
0CW73425M476V	9- 42	AC	DJ		C	
〃	10- 37	AC	DJ		C	
0CW812530////	1- 43	AC	DJ	N	C	